

33. *Vital statistics.*—Under this head the Lieutenant-Governor deems it advisable to reproduce the remarks he has already recorded in reviewing the report of the Sanitary Commissioner for 1889, as follows :—

"Births are now registered in 137 municipal towns with an aggregate census population of 2,422,994. The ratio of registered births is only 22·76 per thousand, the ratio of male births being 12·05, against female births 10·70. Dr. Gregg observes that the supposed standard of birth-rate in India is 40 per thousand, and it is probably even higher than this. There are indeed six municipalities in Bengal in which the statistics of birth exceed this ratio; but there are no less than 15 in which the statistics are so imperfectly recorded that the ratio is less than 10 per thousand. Among these is South Suburban Municipality, where the ratio is 7·47. In four municipalities—Muktagacha, Jhalokati, Goberdanga, and Nasirabad—the ratio is less than 5 per thousand. In a large and wealthy municipality like Patna the ratio is only 12·98, in Buxar it is 14·71, in Purneah it is 15·45, in Midnapore it is 15·73, in Jessore it is 16·71, in Dacca it is 17·71, in Cuttack it is 17·83, in Berhampore it is 18·89, and in Krishnaghur it is 19·68. When the registration in important municipalities, at the head-quarters of districts, is still so defective, it appears to be hopeless to attempt registration with any approximation to accuracy in rural areas. It is true that the registration for 1889 shows a slight improvement over that of 1888, when the ratio of births was only 20·63; but the result is still very discouraging, and shows that municipalities as a body do not pay attention to this elementary and very necessary portion of their duties. The Lieutenant-Governor has observed that during the current year, according to the statements published weekly in the Gazette, birth registration is still extremely deficient.

The same remarks are applicable to the registration of deaths in municipalities. The registered mortality in 1889 was 25·03 per thousand, against 24·86 per thousand in 1888. The statistics recorded vary very widely in different municipalities, as the following figures will show :—

	1889.	1888.	Mean of 1884-88.		1889.	1888.	Mean of 1884-88.
Pooree	71·4	52·9	50·8	Cuttack	20·0	16·2	17·6
Purulia	49·5	50·3	29·8	Furzedpore	19·0	8·8	21·2
Bungpore	47·2	38·6	23·7	Arrah	16·6	21·6	16·7
Serampore	46·0	40·6	38·6	Krishnaghur	16·3	14·8	23·5
Raneegunge	43·8	45·1	30·9	Patna	15·9	21·0	22·6
Gya	42·2	49·2	49·8	Chittagong	15·0	18·7	21·7
Jamulpore	38·5	38·7	39·0	Santipore	11·7	9·4	13·5
City Moorshedabad	37·9	33·8	39·4	South Suburban	11·2	12·7	14·7
Utterpara	37·7	28·0	23·7	Ranaghat	10·9	6·6	11·4
Baranagore	36·8	30·6	24·4	Kishoregunge	10·9	8·4	17·5
Dinapore	33·4	31·5	21·9	Baduria	8·6	10·5	11·9
Hooghly	31·8	27·5	39·1	Tangail	5·8	9·2	18·9

The small improvement effected in the registration as a whole during the past year may be attributed to the special circular issued by Government on the subject, and to the action taken by the Sanitary Commissioner in supplementing the instructions then promulgated; but the registration in many municipalities is still deplorably defective. There can be no reason why, under proper administrative arrangements, the registration should not be as complete at Patna and Arrah as it is at Gya, for instance, or in Ranaghat and Santipore as it is in Serampore and Utterpara. The South Suburban town is again conspicuous for its imperfect registration. The two newly-created municipalities of Cossipore-Chitpore and Manicktollah, where in the former case, a mortality is registered of 38·9 per thousand, and in the latter only 14·5 per thousand, afford a marked illustration of good and bad work in adjoining localities. It is obvious that these figures supply very little scope for any observation on the comparative health of municipalities during the year."

34. Sir Stuart Bayley is well aware that attention is now being devoted to the registration of these statistics, and he is confident that every year will show further improvement. But the point is one of real importance on which it is necessary to lay special stress; for the efficiency of municipal administration must always be judged in a large measure by the success which attends the accurate registration of births and deaths, which are the very basis of sanitary enterprise, and in all civilised countries are recorded with the greatest accuracy.

35. *Loans and Sanitation.*—The policy of Government in regard to loans was fully stated in last year's Resolution, and every encouragement is now offered to municipalities to apply for loans for the execution of well-considered schemes of improvement. The following applications have been sanctioned within or immediately after the close of the year:—

- (a) *Dacca.*—The municipality applied for a loan of Rs. 1,25,000 for extending the water-works to some parts of the town which were not hitherto supplied with filtered water. Rs. 30,000 was advanced during the year, and the balance will be advanced during the current year.

- (b) *Dinapore*.—In March 1890 orders were issued sanctioning the grant of a loan of Rs. 10,000 to the Dinapore Municipality for the completion of the drainage works in that town.
- (c) *Rampore Beaulah*.—In April 1890 sanction was accorded to the grant of a loan of Rs. 15,000 applied for by the Rampore Beaulah Municipality for the construction of drainage works.
- (d) *Bankoora*.—A loan of Rs. 5,000 was applied for and sanctioned to the Bankoora Municipality in June 1890 for improving the water-supply in that town by sinking six wells and acquiring and excavating a big tank in the centre of the town.
- (e) *Pooree*.—The municipality applied for a loan of Rs. 25,000 for the improvement of the drainage of that town. But as the scheme submitted by the municipality was not approved by the Public Works Department of Government and has to be revised in that Department, the application for the loan has been held in abeyance.
- (f) *Sooree*.—The Sooree Municipality obtained a loan of Rs. 1,000, repayable in four years without interest, from Raja Ram Ranjan Chakrabartty, Bahadoor, of Hetampore, for establishing a municipal market called the "Jubilee Market."

Proposals for loans to the Midnapore, Chupra, and Mozufferpore Municipalities for the improvement of the drainage of those towns have been under consideration, but as the schemes were not matured in any of these places, no final orders have been passed. The Serampore Municipality applied for a loan of Rs. 30,000 for improving drainage, and a notification was published in May 1890, as required by the rules, declaring the intention of the Lieutenant-Governor to sanction the application; but up to the present time no further action has been taken. The Commissioner of the Chota Nagpore Division reports that Rajah Nilmoni Singh Deo of Pachet offered a contribution of Rs. 5,000 towards the cost of improving the water-supply of the town of Purulia, and has since the close of the year paid up Rs. 1,000 as part of his donation. As, however, a larger provision of funds will be necessary for the works, the Municipal Commissioners contemplate borrowing a sum of Rs. 10,000 from Government. The scheme for the Howrah water-works is still under the consideration of Government and it is probable that for this undertaking a comparatively large loan amounting to not less than ten lakhs of rupees will be necessary.

36. Upon the whole, the Lieutenant-Governor is not disappointed with the manner in which municipalities have availed themselves of the more liberal policy inaugurated by Government, and he is quite sure that a very profitable use is being made of the loans already granted. But he would be glad to see the larger municipalities, especially those in Behar, more forward to appreciate the necessity of capital expenditure. He has no doubt that in a short time there will be greater willingness in this direction. It must not be forgotten that municipal administration in Bengal is still in its infancy, and that the Commissioners generally have had no opportunity of appreciating the enormous benefits which result from capital outlay on sanitary and other works. The total expenditure incurred on sanitation in municipalities in Bengal last year (excluding Calcutta) was only Rs. 12,81,031, and the total of loans which had been raised by these municipalities for purposes of sanitary improvement up to the close of the year was less than three lakhs of rupees. By way of comparison it may be mentioned that the single town of Liverpool expended on sanitary improvement during the year 1887-88 the sum of £1,102,004; that the outstanding loans of the Liverpool urban sanitary authority at the close of that year were £8,284,984; that the expenditure in that year of 271 municipal boroughs in England acting as urban sanitary authorities was £15,894,457, and that the amount of outstanding loans of extra metropolitan municipalities was £152,557,155. Of course it is out of question for Bengal Municipalities to expend anything approaching to these vast sums on sanitary improvement, but the figures are quoted as being calculated to impress the imagination with the contrast in municipal development between India and Europe; and although the beginnings in Bengal are very small, it may be hoped that they will rapidly increase, and



that improvements in one town will not fail to stimulate other municipalities to rival its success.

37. *Enforcement of section 63 of the Act.*—The provisions of the section empowering the Commissioner of the Division and the Magistrate of the district to suspend the execution of any resolution or order, or prohibit the doing of any act by the Commissioners of a municipality, when such resolution or order or act is in excess of the powers conferred by the law, or is likely to lead to serious breach of the peace, or to cause serious injury or annoyance to the public or to any class or body of persons, were enforced in three municipalities during the year, viz., Dacca, Colgong, and Arrah. The circumstances were unimportant in all cases, and need not be especially noticed.

38. *Miscellaneous.*—The tramway in the town of Patna was completed and was in working order during the year. The length of the tramway is nearly seven miles with 11 sidings to enable cars to cross each other. The total number of passengers carried up to 31st March last was 151,260. There was only one serious accident during the year.

There were serious outbreaks of fire in the municipalities of Nattore, Bogra, and Rungpore, attended with loss of property, but no lives were lost. Great damage was done to the roads by the high floods in Coomarkholly, Nuddea, and Santipore. In Moorshedabad there was an unusual flood during the year, and considerable portions of Lalbagh and Azimgunge were under water. The Nawab Bahadoor of Moorshedabad contributed about Rs. 3,000 for giving relief to the poor in Lalbagh, and Rai Dhunput Singh, Bahadoor, and Rai Bepin Chand and Rai Budh Singh Dudhuria, Bahadoor, subscribed Rs. 500 and 100 respectively for relief of the Azimgunge people who suffered from the flood. In the Manicktollah Municipality a fire occurred, causing damage to the extent of about Rs. 40,000.

In April 1889 a tornado passed over some of the villages within and about the Tangail Municipality. Its duration was very short, and it extended over a distance of five miles. It is reported that 139 human lives were lost and 242 persons seriously wounded. The loss of property was estimated at Rs. 19,000. A sudden somewhat similar blast of wind also visited the town of Nalchitui on the night of the 27th October 1889. Its duration was a few minutes only, and it extended over an area of about a mile. Some damage to property was caused, but no lives are reported to have been lost.

39. *Working of the Porters and Dandiwallas Act, V (B.C.) of 1883, in Darjeeling.*—The Act did not work satisfactorily during the year, and the table of rates for the hire of porters and dandiwallas was revised. Seventeen prosecutions were instituted and 15 convictions obtained. Three hundred and forty-seven dandiwallas and 229 porters were registered and 494 badges were issued. The cost incurred in the working of the Act was Rs. 170.

40. *Working of the Pilgrims' Lodging-house Act IV (B.C.) of 1871.*—In Pooree the total receipts during the year, including the opening balance of Rs. 3,983-5-2, amounted to Rs. 12,443-14-11, and the expenditure to Rs. 11,255-11-4, against Rs. 18,176-11-4 and Rs. 14,193-6-2 respectively of the preceding year. Excluding the opening balance, the receipts show an increase of nearly Rs. 3,000 over the preceding year. The sum of Rs. 5,000 was paid to the municipality for the cost of conservancy and sanitary improvement of the town. The number of lodging-houses increased from 194, capable of accommodating 5,433 lodgers, to 417, capable of accommodating 11,170 lodgers. Sixty-two pukka drains and 363 pukka latrines were constructed within house premises, and in 408 houses the rooms were provided with suitable windows. The total amount of fines realised amounted to Rs. 911-2-6, against Rs. 1,074-9 in the previous year. Besides contributing largely to the pilgrim hospital in the town of Pooree, the Lodging-house Committee continued to maintain the Pipli and aid the Baliana dispensaries. Altogether the Act worked satisfactorily.

41. The total receipts of the Gya Lodging-house Fund amounted to Rs. 18,400-7-2 (including the balance of the previous year), and the total expenditure was Rs. 13,193-2-11, leaving a balance of Rs. 5,207-4-3. The number of new certificates issued under the Act was 12, against 27 in the preceding year. Four hundred and five licenses were issued, against 476 of 1888-89, and the number of lodgers was 11,659, against 13,485. Altogether 63 prosecutions

were instituted, all of which were disposed of, 57 cases ending in conviction and 6 in acquittal. The total amount of fines imposed was Rs. 211, against Rs. 240. A further sum of Rs. 4,181-4-10 was spent in completing the cholera hospital. The hospital was formally opened in September last for the treatment of sick pilgrims in the old town of Gya. Forty-five cases were treated, of which 27 were cholera cases. There was no epidemic in the lodging-houses. They were kept in good order, and measures were adopted to keep them clean. All the houses are reported to have been regularly inspected by the Health Officer during the pilgrim season. The working of the Act appears, on the whole, to have been satisfactory.

42. In Raneegunge the Act could not be brought into working order, and the town has eventually been withdrawn from its operation after the close of the year.

43. At Chandbally the income of the year, including the opening balance, was Rs. 921 and the expenditure Rs. 655. Two pucca urinals were constructed, a tank was improved, and a large pucca well was sunk at the cost of the Lodging-house Fund. A sufficient number of sweepers was employed to sweep the streets and keep the urinals and public latrines in good order. The Act is reported to be working satisfactorily, and the difficulty which used to be felt in inducing the lodging-house keepers to apply for licenses has passed away.

44. The working of the Lodging-house Act in the town of Garbetta was transferred during the year to the District Board of Midnapore, the special committee under the Act being abolished. The District Board has also been entrusted with the working of the Act at Dantoon, another town on the Jagan-nath road in the Midnapore district.

45. *General working of the Municipal Act, III (B.C.) of 1884.*—The Commissioner of the Burdwan Division observes:—

Burdwan Division.

"Great credit is due to Rai Nalinaksha Basu, Bahadur, and to Baboos Eshan Chandra Mitter and Siv Narain Mukerjee, Chairmen of the Burdwan, Hooghly, and Utterpara Municipalities respectively, for their successful administration during the past year. Other Chairmen have also done good work, and so have many of the Vice-Chairmen and members of various municipalities, but their names are too numerous for detailed mention within the limits of this report. On the whole I consider that, in spite of many faults of omission and commission, the municipalities in this Division have worked successfully and have made good use of the funds at their disposal. They are more suited to consultative than to outdoor executive work, and are chiefly dependent for the latter on their Chairman, Vice-Chairman, and subordinates. If no great progress has been made in sanitary and other improvements, it has been due to the want of means rather than to the want of will. The weakest point in the administration of the various municipalities is, I consider, the want of effective outdoor supervision."

46. The Commissioner of the Presidency Division remarks:—"The Act, on the whole, worked well. Both the elected and nominated Commissioners continue generally to take

Presidency.

interest in their duties, and the work has been carried on smoothly. I agree with Mr. Forbes in thinking that the party dissensions which so frequently interfered in certain municipalities with the unanimity of their proceedings during the first years of the new system seem to be gradually abating."

47. Speaking of the municipalities in Rajshahye, the Magistrate writes:—

Rajshahye.

"The Beaulah Corporation has discharged its duties very satisfactorily. The relation between me and the Corporation has always been cordial, the Commissioners always showing their willingness to consider the suggestions made by me, and proving themselves always amenable to reason and friendly advice. The Nattore Municipality has also worked very ably. But I would like to see more coherence in the members; they should lay aside all party spirit and work in harmony for the public good. It would be well also if they tried to enlist, not only the sympathies, but the active co-operation of the local zemindars and the people in the introduction of the very many sanitary improvements which the town is sadly in need of." The Magistrate of Rungpore writes:—"The Chairman and Vice-Chairman are both pleaders, busy men, and unable to give their attention to outdoor work. They do their best, and the town is greatly indebted to them for their public spirit. It is, however, much to be wished that, in case



of vacancy in either office, it may be filled by a non-professional resident, able to give more time and attention to inspection." The Deputy Commissioner of Julpigoree, who is also the Chairman of the local municipality, writes thus:—"The provisions of the Act have worked well and without friction throughout the year, though it was found necessary to sacrifice somewhat the interest of municipal funds with regard to the registration of carts owing to the peculiar relation the town bore to the surrounding district. Hundreds of carts passed through the municipality, but as they were shown not to ply habitually, they were exempted from paying registration fees. The Commissioners have evinced great interest in the welfare of the municipality, as evidenced by the interest and trouble they took in the registration of births and deaths. It would be invidious to point out any individual while all have shown such interest, but the names of Baboos Nilmony Pal, Kedarnath Mookerjee, and Moonshee Abdul Hamed require special mention."

The Commissioner of the Rajshahye Division writes:—"The Rampore Beaulah Commissioners showed a want of firmness in dealing with the opposition encountered in the attempt to revise the tax, but from what I have seen of the working of the municipalities as a whole, I have had reason to be very well satisfied with the manner in which the Commissioners have discharged their duties."

48. The Magistrate of Dacca has recorded the following opinion of the working of the Act in his district:—"I have no remarks to make except to regret that more has not been done to keep the principal roads in better repair. The bad condition of the Narsingunge road within municipal area has been repeatedly brought to the notice of the municipality for the last three years, but with no effect. The year has in many respects been one of fairly successful administration." The Magistrate of Backergunge writes as follows:—"In all the municipalities improvements have been effected and the Committees have worked smoothly. In Burisal in particular the members take an interest in their duties and work for the public good." The Magistrate of Mymensingh writes:—"I had not the opportunity of seeing the practical working of the municipalities during the year under review, but from what I have seen of them since I joined the district, and from a perusal of the papers, I am of opinion that the working was, on the whole, satisfactory. The Municipal Commissioners generally take a great deal of interest in their work and spend much of their time for the welfare of their towns. There are certainly some grave shortcomings which require to be repeatedly pointed out and pressed on their attention in order to be remedied. As will be seen from the statements in the appendix, many of the municipalities devote unduly large portions of their income to high education, which generally benefit a small and comparatively well-to-do minority; and the Municipal Commissioners often forget that they should spend most part of their income for the greatest good of the greatest number, and that in this alone lies the justification of municipal taxation. The drainage and sanitation of most of the municipalities require to be better looked after and improved. Many of the Municipal Commissioners have neither the leisure nor the inclination to look to practical details, and often there is not that close supervision over the work of clerks, overseers, and their underlings which is essential to efficiency."

The Commissioner of the Division observes:—"My own acquaintance with these municipalities dates from the current year only. I feel it would be unsafe to generalise on the subject, but I cannot refrain from noticing that the formation of small municipalities which contain merely the nucleus or germ of a town, surrounded by villages whose inhabitants, whatever be their means of livelihood, possess genuine agricultural instincts, was not foreseen, and is not altogether advantageous. Where such conditions prevail, something in the nature of a plebiscite to determine whether a township shall be formed or not is much to be recommended."

In Mr. Power's objection to the establishment of very petty municipalities and to the inclusion in them of agricultural villages the Lieutenant-Governor entirely concurs.

49. The Commissioner of the Chittagong Division writes:—"Generally I do not think progress is being made. Want of funds is the great difficulty which cannot be got over. There has been much good individual work, but there has also been

great laxness, particularly in the accounts of the Chittagong Municipality. There has been, as usual in almost every town, one or more personal matters which seem to cause much more interest than more important public matters."

50. The Commissioner of the Patna Division writes thus with reference to the municipalities in his Division:—"In the Gya Municipality the working of the Act III (B.C.) of 1884 was hardly satisfactory. The Commissioners took some interest in the matter which came before them for discussion, but only held eight meetings. The affairs of the Tikari Municipality form the subject of separate correspondence. The Commissioners of the Arrah Municipality evince an amount of energy which at times is injudicious and has to be checked. The troubles at Jugdispore have already been noticed. The working of the other municipalities in the district is reported to be satisfactory, but I fear they are not what they should be. The Magistrate of Saran writes that the municipalities in his district have worked much as usual. Those of Revilgunge and Sewan are very poor and cannot do much, but according to their lights and up to the limited extent of their powers they worked well. The affairs of the Chupra Municipality were unsatisfactory till Mr. Bourdillon was elected Chairman, when, with the help of the Sub-Committees, something has been done to remedy the defects, and a fair measure of success has been achieved. The Commissioners of the Durbhunga and Madhubani Municipalities are said to take a fair amount of interest in their work; party feeling is, however, strong among them. In Roserah, which is beyond the pale of immediate official supervision, much time is lost in petty disputes over trifles, while no attention is paid to the interests of the rate-payers. In Chumparun the Municipal Commissioners are said to have as a body worked well, and both the Vice-Chairmen of the Motihari and Bettiah Municipalities take much interest in their work. The working of the Patna Municipality shows no improvement. In the last year's report Mr. Boxwell remarked that the features are 'inadequate conservancy and latrine arrangements, almost absolute absence of supervision, conservancy staff both inadequate and idle, watering and lighting insufficiently supervised, and the drainage of the whole municipality abominably bad.' No effective steps were taken during the year to remove these defects and shortcomings."

51. The Commissioner of the Bhagulpore Division writes:—"As I only joined the Division at the close of the year, I cannot offer any general remarks based on personal knowledge of the working of the municipalities in this Division during its course; but I gather from what I have since observed, as well as from the several annual reports, that the administration of municipal affairs has been on the whole satisfactory, and that the general body of Commissioners have shown a fair amount of interest in the duties entrusted to them, though the real work has in most cases been performed by a few members only. Monghyr, under the superintendence of its non-official Chairman, appears to be a model municipality; and Bhagulpore, which has also at present an energetic non-official Chairman, has shown its enterprise in carrying out the water-supply scheme. No water-rate, however, has yet been levied, and in its absence the ordinary rate on holdings should certainly be raised, so as to cover the large additional expenditure which prevents full justice being done to the other requirements of the town."

52. The Commissioner of the Orissa Division writes:—"The Chairman of the Cuttack Municipality quotes the following passage from a letter from the Sanitary Commissioner for Bengal to show what improvement has been effected in the sanitation and conservancy of the town:—"I was, however, well pleased with the cleanliness of the town and with what I saw and heard as to the manner in which the Municipal Commissioners were performing the duties of their trust. They deserve credit for the good work they have done, and I hope that when I have an opportunity of visiting the town again I will find things in as satisfactory a condition as they were in February last." The sanitary and conservancy arrangements in the town of Pooree have also improved. The Magistrate remarks:—"There has been substantial improvement and good work done in all these matters. The Municipal Commissioners have adopted many of the



Health Officer's suggestions and worked them out honestly. Except in some low parts in the outskirts, there are few Indian towns where there is less that is offensive to sight and smell than in Pooree, always, of course, excepting crowded pilgrim seasons.' The Balasore Municipality is under the management of Dr. Zorab, the Civil Surgeon, who is Chairman, and of Rajah Boikuntanath Dé, Bahadoor, both of whom take great interest in municipal matters. The Chairman acknowledges the valuable services rendered by the Vice-Chairman, and mentions the construction at his own cost of 225 feet roadside drain in a part of the town where it was very much wanted, and also the excavation of a tank in Soonhat. Dr. Zorab remarks:—'Daily some progress towards sanitation is being made in the municipality, which is, doubtless, the outcome of the great cordiality which exists among the Commissioners. Our means are small, and advance in consequences tardy, but there is no doubt such advancement is secured by their faith in the belief that union is strength.' No remarks were made by the Magistrate on the working of the Kendrapara and Jajpore Municipalities. The Chairman of the Jajpore Municipality remarks that all the Commissioners do not take an active interest in their work, but four or five of them, including the Vice-Chairman, rendered much valuable assistance. There has been some improvement in both these towns."

53. The Commissioner of the Chota Nagpore Division has recorded the following remarks:—

Chota Nagpore.

Hazaribagh says that the Municipal Commissioners in his district generally took great interest in their duties and expended the funds available to the best advantage. The Deputy Commissioner of Lohardugga reports that the Act worked well in the Ranchi Municipality. The Municipal Commissioners here worked as a rule in complete harmony and union, and were guided by a commendable spirit of independence and intelligence. The presence in the Municipal Committee here of the Civil Surgeon, who looks after a great deal of the sanitary matters of the town, and of the District Engineer, who assists the municipality with his professional advice, has had a salutary effect. The efficiency of the Committee is also greatly due to the active interest taken by its Vice-Chairman, Babu Saroda Kumar Aikat, a member of the local bar. The Municipal Act worked fairly well in the town of Lohardugga, considering that it has been in actual operation there since the commencement of the past year. The Commissioners here, with one or two exceptions, took interest in the affairs of the municipality, but its usefulness is principally due to the exertion of its Chairman, the Revd. Mr. F. Hahn. In Daltongunge, the absence of a Chairman for the greater portion of the year, the want of experience among the Commissioners, and the apathy of the people generally, made the work of the year a trying one, but it is hoped that in time the municipality here will be a useful institution. In Manbhoom the Purulia Municipality was, on the whole, managed well. The Commissioners, with few exceptions, took interest in their duties and, besides the business at meetings, assisted in the execution of work of the different wards. In Jhalda things were not satisfactory. The former Chairman, the Tehsildar of the Jhalda Ward's Estate, was dismissed for fraud from the service of the Court of Wards and was required to vacate his municipal appointment. When in December last the late Deputy Commissioner visited the town, he found considerable dissatisfaction prevalent at the proceedings of the Vice-Chairman and some other Commissioners. He took steps to set matters right. The Raghunathpur Municipality is settling down to its work. Its fund, however, is scanty, and it has not therefore been able to do much. The Chaibassa Municipality worked fairly well during the past year. Its Chairman, Dr. S. J. Manook, took great interest in its affairs."

54. The Lieutenant-Governor has reproduced these remarks at length, as he considers they afford the best general commentary on the administration of municipalities during the year. It will be seen that the opinion of local officers is upon the whole favourable, although it does not fail to notice defects and probe the weak points of the system. Sir Stuart Bayley in this Resolution also has not hesitated to indicate many important matters in regard to which there is urgent need of improvement. But he has also been at pains to make it clear that the past year has been characterised by much good work and honest devotion to public duty. In several municipalities credit is due to the Chairmen

and Vice-Chairmen for their energetic administration under very difficult conditions. The thanks of Government are emphatically accorded to these gentlemen, and also to the district officers and divisional Commissioners to whose kindly and sympathetic co-operation and guidance much of the success attained must justly be attributed. The Lieutenant-Governor desires also to acknowledge the general excellence of the reports received from Commissioners, and especially that submitted by Mr. Toynbee, the Officiating Commissioner of Burdwan.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,  
*Secretary to the Government of Bengal.*



## WORKS OF PUBLIC UTILITY CONSTRUCTED IN 1889.

GOVERNMENT OF BENGAL—PUBLIC WORKS DEPARTMENT.

Mis. Pub. Improvements.

No. 2979 M.P.J., dated the 25th November 1890.

READ—

Statement of works of public utility constructed by private individuals in the several districts of Bengal during the year 1889.

Read again—

Statement of similar works constructed during 1888, and the Resolution thereon.

REMARKS.—The following works of public utility were constructed by private individuals during 1889:—

			No. of works.	Cost.		
				Rs.	A.	P.
Public buildings	...	...	9	45,082	0	0
Roads	...	...	8	21,610	0	0
Bridges	...	...	4	13,446	10	0
Embankments or bunds	...	...	42	21,833	0	6
Ghâts	...	...	5	4,950	0	0
Tanks	...	...	659	4,10,684	11	6
Wells	...	...	106	32,145	0	0
Miscellaneous	...	...	5	8,525	12	0
				5,58,277	2	0
Petty works	...	...	...	90,856	13	9
Total			838	6,49,133	15	9

The subjoined statement shows the number of works costing more than Rs. 200 each which were constructed during the past year, and the amounts contributed, including donations for petty works, as compared with the figures for the two previous years—

Year.	Number of works costing between Rs. 200 and Rs. 500 each.	Number of works costing more than Rs. 500 each.	Total number of works costing Rs. 200 and upwards each.	Total expenditure on works costing Rs. 200 and upwards each.	Add cost of petty works under Rs. 200.	Total contribution.
				Rs. A. P.	Rs. A. P.	Rs. A. P.
1887	312	66	400	1,05,668 2 6	80,631 1 0	1,86,299 3 6
1888	331	153	483	3,30,493 9 9	74,749 8 0	4,05,242 7 9
1889	485	354	839	5,58,277 2 0	90,856 13 9	6,49,133 15 9

The number of works costing Rs. 200 each and upwards, and the amounts contributed in each district for their construction, are given in the following table:—

District.	No. of works.	Total cost.
		Rs. A. P.
Burdwan	8	3,776 0 0
Bankoora	Nil	Nil
Beerbhoom	3	1,100 0 0
Midnapore	26	17,232 0 0
Hooghly	5	18,064 15 0
Howrah	1	2,000 0 0
24-Pergunnahs	9	8,675 12 0
Khoolna	26	10,075 0 0
Nuddea	29	22,056 12 6
Jessore	6	2,540 0 0
Moorshedabad	3	2,900 0 0
Dinagepore	15	7,650 0 0
Rajshahye	33	25,750 0 0
Carried over	169	1,31,820 7 6

District.	No. of works.	Total cost.		
		Rs.	A.	P.
Brought forward	169	1,21,820	7	6
Rungpore	9	3,318	0	0
Bogra	13	7,843	0	0
Pubna	16	18,700	0	0
Darjeeling	Nil	Nil		
Julpigoree	5	7,446	10	0
Dacca	3	3,456	0	0
Furzedpore	14	5,350	0	0
Backergunge	6	1,955	0	0
Mymensingh	40	19,060	0	0
Tipperah	16	6,150	0	0
Noakhally	2	800	0	0
Chittagong	2	440	0	0
Chittagong Hill Tracts	Nil	Nil		
Patna	1	200	0	0
Gya	11	3,089	0	6
Shahabad	3	3,000	0	0
Durbhunga	130	97,295	0	0
Mozufferpore	66	59,504	0	0
Sarun	22	11,500	0	0
Chumpanun	31	11,680	0	0
Monghyr	41	10,225	0	0
Bhagulpore	168	1,04,714	0	0
Purneah	15	7,678	0	0
Maldah	3	1,900	0	0
Sonthal Pergunnahs	9	18,233	0	0
Cuttack	4	14,650	0	0
Balasore	20	10,770	0	0
Pooree	7	4,200	0	0
Hazaribagh	Nil	Nil		
Lohardugga	2	600	0	0
Manbhoom	2	700	0	0
Singbhoom	3	2,000	0	0
Total	838	5,58,277	2	0

The following works are specially noted:—

**Public Buildings.**—Babu Ram Chunder Gowku contributed Rs. 16,000 for an alms house at Deoghur, and contributions for similar works at Kaziwolichak and Chowliaganj, amounting to Rs. 10,000 and Rs. 8,000, were made respectively by Torul Mull Marwari and Lalla Chand Dilsukraj. A hospital was constructed in the town of Cuttack by Rajah Badyanath Pundit at a cost of Rs. 6,000, and Dr. Kalipodo Gupta, F.R.C.S., spent a further sum of Rs. 1,750 during the year in completing the charitable dispensary at Haliashahar in the 24-Pergunnahs. The balance of the total amount of Rs. 45,082 contributed under this head is made up of three donations of Rs. 1,000 each and one below Rs. 500.

**Roads.**—The contributions, amounting to Rs. 21,610, under this head show a considerable increase when compared with the figures of 1888. Babu Nrisingha Nath Addy contributed Rs. 15,000 for a metalled road from Bandarhati to the Haripal railway station, and Rs. 4,020 were given by Rajah Baikunthnath De Bahadur for a metalled road from Balasore to Nulcool. His Highness the Maharajah of Cooch Behar contributed Rs. 1,050 for repairs to certain roads in the Julpigoree district.

**Bridges.**—The total contributions amounted to Rs. 13,446. Rajah Joti Prosad Gorga of Maisadal contributed Rs. 7,000 for a masonry bridge on the khal near Gewkhali, and His Highness the Maharajah of Cooch Behar spent Rs. 6,196 on bridges on the Patgram road.

**Embankments or Bunds.**—Of the sum of Rs. 21,833 contributed, Rs. 16,793 were spent by the Durbhunga Raj on 30 bunds in the Bhagulpore district.

**Ghâts.**—Babu Shib Chundra Chattopadhyaya contributed Rs. 2,000 for a masonry ghât on the river Hooghly at Bellore, and Dr. Kalipodo Gupta, F.R.C.S., spent Rs. 1,000 in completing a masonry ghât at Haliashahar in the 24-Pergunnahs. The total expenditure on ghâts amounted to Rs. 4,950.

**Tanks.**—The number of tanks constructed and re-excavated during the year was very large: the expenditure on these works amounted to Rs. 4,10,684.



The Maharajah of Durbhunga contributed Rs. 8,604 for four tanks in the Mozufferpore district, and Mussomut Rajbunsi Koer contributed Rs. 7,050 and Shaikh Sakhawat Rs. 4,000 for tanks in the same district. Babu Lachmi Narain Singh spent Rs. 5,500 on two tanks. Babus Jadab Chandra Saha and Krishna Behari Rai contributed Rs. 3,000 each; Babu Raghu Das Rs. 2,700; Babu Shib Charan Sahoo and others Rs. 2,538; Babu Kakra Mandal and others Rs. 2,357; Manorath Khawas Rs. 2,200; Babu Lalla Jha Rs. 2,100; Shoik Kanahri Rs. 2,050; Kumar Jogendra Nath Rai, Babu Gobinda Nath Saha Choudhury, Hari Kristo Poddar, Babu Gulab Misser, Tilak Mandar, Babu Ramlal Choudhri and Jahnabi Choudhurani Rs. 2,000 each; Hira Sahoo Rs. 1,951; Jhoomen Mandar and others Rs. 1,905; Jhanti Mandar and others Rs. 1,830; Somman Mandal and others Rs. 1,813; Aghari Mian, Sitai Munder and Ajarject and Totai Mandar Rs. 1,800 each; Jhoomuk Das and others Rs. 1,576; Shyam Mandar and Kasi Mandar Rs. 1,574; Karman Mandal and others Rs. 1,525; Babus Krishna Chandra Chatterjee, Damodar Mandal, Advait Chandra Pal, Fatoori Missir, Musso-math Lalit Kuar, Dana Thakur, Jairam Shah, Mushai Mahto, Mohunt Shia, Ram Das, Ramdin Das, Bishun Pergash Singh and the wife of Chulahi Teli Rs. 1,500 each; Nathroo Mander and others and Brojo Sundari Debya Rs. 1,400 each; Harihar Pathuk and others Rs. 1,305; Palat Sah, Dharam Chund Shah, Hari Nath Biswas and others and Goolab Mandar Koiri Rs. 1,300 each; Burmi Kamat and Bhorosi Mandal Rs. 1,242; Babus Jadu Nath Parial, Jorip Pramanick, Iswar Chandra Ghosh, Gauri Naik, Bhangji Jha, Gopal Jha, Butun Sahoo, Janor-dhan Singh, Lal Sahoo Teli, Birbhadra Sarangi and Srimati Sonamoni Kamarni Rs. 1,200 each; Purno Shaha, Jamir Karigar, Hira Nath Mandar and Colonel W. L. Samuells Rs. 1,100 each; and Prosad Missir Rs. 1,033.

**Wells.**—One hundred and six wells were constructed at a cost of Rs. 32,145. None of the contributions on this account were large.

**Miscellaneous.**—The sum of Rs. 8,525, contributed under this head, was spent chiefly on the excavation of water channels. Srimati Kamini Sundari Das and Babu Harimohun Chackraverty spent Rs. 3,500 and Rs. 1,500 respectively on the construction of khals at Jogoti and Gogia in the Nuddea district, and Babu Taralukhya Nath Biswas and others Rs. 1,624 on the re-excavation of the Shreerakole khal in the 24-Pergunnahs.

**RESOLUTION.**—The Lieutenant-Governor notices with satisfaction that there has been a considerable increase during the year under review, both in the number of works of public utility constructed and the amount contributed for them, and His Honour desires that the thanks of the Government for their public spirit and liberality may be conveyed to those who have supplied the means wherewith the numerous works entered in the statement have been constructed.

Letters of acknowledgment will be forwarded by the Government to those who have constructed works costing over Rs. 500. The rest will receive the usual acknowledgment from the Commissioner or the Magistrate of the Division.

**ORDER.**—Ordered that a copy of this Resolution, and of the statement, be forwarded to the Board of Revenue, Lower Provinces, and to all Commissioners of Divisions; to the Commissioner of Chota Nagpore and to all Superintending Engineers of Public Works Circles in Bengal for information.

Ordered also that a copy of this Resolution, and of the statement, be forwarded to the Revenue and Judicial Departments of this Government for information.

Ordered also that this Resolution and the statement be published in the Supplement to the *Calcutta Gazette* for general information.

By order of the Lieutenant-Governor of Bengal,

E. J. MARTIN,

*Joint-Secretary to the Government of Bengal.*

## Statement of works of public utility constructed by private individuals during the year 1889.

DIVISION.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total.
					Rs. A. P.	Rs. A. P.	Rs.
Burdwan	Burdwan	Munshi Zamia Ali Choudhary, of Kantulicuri, thana Anagram.	Tank ... ..	Kantalikuri, thana Anagram.	500 0 0	5,775 0 0	
		Baboo Krishna Chandra Chatterjee, of Deasia, thana Katwa.	Two tanks ... ..	Deasin, thana Katwa ...	1,800 0 0		
		Baboo Akhmal Chandra Bhattacharjee and others, of Majida, thana Purbasthali.	Re-excavation of a tank.	Majida, thana Purbasthali ...	375 0 0		
		Baboo Raj Chandra Samanta, of Panchdih, thana Hanigunge.	Tank ... ..	Faridpore, thana Ganigunge ..	400 0 0		
		Barkatunnessa Bibi, of Ekilaki, thana Rayna.	Do. ... ..	Ekilaki, thana Rayna ... ..	400 0 0		
		Brahmananda Kabiraj, of Khanda-gosh, thana Khanda-gosh.	Re-excavation of a tank.	Khanda-gosh, thana Khanda-gosh.	300 0 0		
		Munshi Saduruddin Ahmed Behar, thana Satgachia.	Tank ... ..	Satgachia, thana Satgachia ...	300 0 0		
Bankoorah		Nil	Nil	Nil	Nil		
Burdwan	Burdwan	Debendra Prasanna Sinha, of Raipur	Tank ... ..	Raipur ... ..	500 0 0	1,100 0 0	
		Kristo Chandra Roy, of Bongram	Do. ... ..	Bongram ... ..	400 0 0		
		Om Chandra Guman	Do. ... ..	Bhollan ... ..	200 0 0		
Burdwan	Midnapore	Robu Mellick, of Kashonda	Tank ... ..	Kashonda, police station Chan-drakona.	700 0 0	13,800 0 0	
		Romai Mal Gowala, of Mongrool	Re-excavation of a tank.	Mongrool, police station Chandrakona.	700 0 0		
		Radha Nath Bharya, of Mooradichuck	Tank ... ..	Mooradichuck, police station Panskora.	700 0 0		
		Shish Chandra Ghose, of Alagram	Re-excavation of a tank.	Alagram, police station Panskora.	400 0 0		
		Shish Chandra Ghosh, of Hariballavpur.	Tank ... ..	Hariballavpur, police station Satabata.	350 0 0		
		Judistir Paramanik, of Barh Ghampur.	Do. ... ..	Barh Ghampur, outpost Bata-gata.	300 0 0		
		Tara Chand Pal, of Ramthak	Do. ... ..	Ramthak, outpost Balugata.	400 0 0		
		Kandebar Bara, of Rai Ranyachak	Do. ... ..	Shitalpur, police station Mel-sadal.	350 0 0		
		Raja Joti Prasad Gorge, of Mainadal	Masonry bridge	On the khal near Gawkhal, outpost Gawkhal.	7,000 0 0		
		Meghori Das, of Danibark	Re-excavation of a tank.	Jugpur Nath Chak, outpost Bahiri.	500 0 0		
		Lakshmi Narain Pahari, of Boro Rosol-pore.	Do. ... ..	Boro Rosolpore, outpost Baidabpore.	200 0 0		
		Brojo Sundari Debys, of Jinindapore	Do. ... ..	Jinindapore, outpost Baidab-pore.	1,400 0 0		
		Mukteswar Bar, of Boro Nalgaria	Do. ... ..	Boro Nalgaria, outpost Bas-debpore.	200 0 0		
		Nanda Lal Dey, of Kishorepore	Do. ... ..	Kishorepore, police station Bhagabampur.	200 0 0		
		Madhub Chandra Bara, of Ramchak	Do. ... ..	By the side of the Tank road, near Thakurpore village, police station Bhagabampur.	400 0 0		
		Dwarkan Nath Das, of Koshba	Do. ... ..	Nobipore, police station Eg-rak.	200 0 0		
		Fakir Uss Dhoos, of Balighai	Tank ... ..	Madhupur Bazar, police sta-tion Ekrah.	200 0 0		
		Ditto ditto	Do. ... ..	Mohannagar, police station Ekrah.	200 0 0		
		Chandra Mohun Guin, of Nantola	Masonry landing ghat on the river Solye.	Nantola, police station Das-pore.	400 0 0		
		Akroy Narain Mohapatra, zemindar, of Kajrah.	Tank ... ..	Satlapore, outpost Chan-ikhola.	200 0 0		
		Brinkey Parboti Dames, of Dopal	Do. ... ..	Madhabpore, police station Kankasore.	200 0 0		
		Chowdhuran Ananda Moyee Debys, Kankasore.	Do. ... ..	Talda, police station Pantoen.	333 0 0		
		Bhika Pal, of Gumbai, Palna (Chikona-d).	Do. ... ..	Wrichundonpur, outpost Mo-hunpore.	200 0 0		
		Jhogri Maiti, of Kenda	Do. ... ..	Bela Herunya, outpost Mohun-pore.	200 0 0		
		Gokul Mondole, of Mohunpore	Do. ... ..	Nyagram, outpost Mohun-pore.	200 0 0		
		Ananta Lal Pal, of Shiromont	Do. ... ..	Shiromont, police station Midnapur sudder.	200 0 0		
		Works costing less than Rs. 200 each			1,543 0 0		
Burdwan	Hooghly	Ram Das Mosumdar	Tank ... ..	By the public road of village Hatti Kondal, thana Bala-guri.	944 15 0	18,068 15 0	
		Nrisingha Nath Addy	Metalled road, 3 miles	Metalled road from village Banderhati to Haripal rail-way station, thana Dhanja-khali.	10,000 0 0		
		Nil Madhab Ghosh	Tank	Baudabpore, thana Haripal.	500 0 0		
		Madhab Chandra Giri	Charitable institution (Guthula).	Tarkaswar, thana Haripal.	1,500 0 0		
		Burga Das Ghosal	Tank	Kristo Bholaipore, thana Jahanabad.	200 0 0		
Burdwan	Howrah	Baboo Shit Chandra Chattopadhyaya (deceased).	Masonry ghat	On the river Hooghly at Belore.	2,000 0 0	2,000	



Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
24-Pergunnahs	Khowda	Babu Girish Chandra Bose	Tank	Garulla	Rs. A. P.	6,075 12 C	Rs. A. P.
		Babu Chandra Sen	Do.	Rodapora	800 0 0		
		Chandi Churn Chatterjee	Do.	Dumaria Maid	600 0 0		
		Dr. Kallipada Gupta, F.R.C.S.	Masonry ghat on the river side.	Halishahar, Hoonaghat	450 0 0		
		Ditto	Charitable dispensary	Halishahar	1,000 0 0		
		Babu Jadu Nath Parial	Tank	Jalabaria	1,750 0 0		
		Nasser Sheik	Do.	Joyguchi	1,200 0 0		
		Raja Pary Mohun Mukerjee	Do.	Between Panighatta and Nalua	350 0 0		
		Babus Pary Mohun Roy, Durga Das Sirkar, Rajkumar Sirkar, Narendran Nandan Deb, and others	Clearing off the Panighatta drainage channel.		601 4 0		
		Babu Tralokhya Nath Biswas	Re-excavation of the Shreerakole khat.	Bajarat to Srenohandy	1,724 7 0		
Dr. Radha Mohun Mondal			200 0 0				
M. Baraja Narendran Krishna Bahadur and others							
Works costing less than Rs. 200 each							
Khowda	Khowda	Babu Umachurn Bandopadhyay	Tank	Ghatbhog	200 0 0		
		Purna Chandra Chattervarty	Do.	Ditto	200 0 0		
		Chandra Kanta Poddar	Do.	Ajkanai	700 0 0		
		Maha Bharat Das	Do.	Moh-swarpanna	400 0 0		
		Mohammad Sheik	Do.	Dara	300 0 0		
		Babu Samantur Bose	Do.	Alka	400 0 0		
		Anadi Nath Mitter	Do.	Dakshindibi	400 0 0		
		Joy Chandra Das	Do.	Hainga	300 0 0		
		Chandra Gharami	Do.	Halidibunia	600 0 0		
		Godhadhar Bhattacharjee	Do.	Khumoni	600 0 0		
Khowda	Khowda	Purna Chandra Bandopadhyay	Do.	Bore	325 0 0		
		Mohini Chandra Sirkar	Do.	Kalkapore	350 0 0		
		Rishi Madhab Ghosh	Do.	Brojopatti	300 0 0		
		Khetra Mondal	Do.	Kushkhal	350 0 0		
		Hary Mohun Roy Choudhury	Do.	Basantapore	600 0 0		
		Kalash Singh	Do.	Pour	500 0 0		
		Kashuk Pal	Do.	Gohindpore	200 0 0		
		Mojaddin Sirkar	Do.	Ditto	200 0 0		
		Babu Dukari Mondal	Do.	Narapore	350 0 0		
		Pager Malik	Do.	Akarpur, Motodanga	500 0 0		
Khowda	Khowda	Barkatulla Sirkar	Do.	Kanta	500 0 0		
		Babu Tara Charan Mondal	Do.	Seoka	200 0 0		
		Moonaboo Sirkar	Do.	Kushkhal	600 0 0		
		Babu Raj Chandra Moira	Do.	Azardari	200 0 0		
		Abdul Sirkar	Do.	Kanchandrapur	300 0 0		
		Bajal Bahaman	Do.	Satali	200 0 0		
		Works costing less than Rs. 200 each			250 0 0		
		Khowda	Khowda	Babu Binkoo Prasad Boral	Masonry ghat	Naradvi	1,000 0 0
				Harish Chandra Chaudhury	Charitable dispensary	Ditto	350 0 0
				Srinati Kumari Sundari Das	New khat	Jocoti	3,500 0 0
Babu Harimohan Chattervarty	Do.			Gowla	1,500 0 0		
Nokhai Sheik	Do.			Majram	1,000 0 0		
Babu Anukhandra Acharye and others	Re-excavation of an old tank.			Old Sandola	400 0 0		
Ahmadulla Sheik	Tank			Maljram	600 0 0		
Noraj Dofadar	Do.			Barbaria	1,000 0 0		
Guman Biswas	Do.			Bornistalapur	450 0 0		
Babu Mohendra Nath Ghose	Do.			Himartara	315 0 0		
Khowda	Khowda	Bank Lal Madak	Do.	Chowgacha	615 0 0		
		Bank Lal Pal and another	Do.	Ghoshpara	251 12 6		
		Puresh Nath Chaudhury	Do.	Kancherpara	311 0 0		
		Natalwipa Pal	Do.	Joto Darpanarayan	400 0 0		
		Rameshwar Bala	Well	Jharadaha	200 0 0		
		Baber Mandal	Tank	Baor	1,000 0 0		
		Babu Kartik Biswas	Do.	Solemari	1,000 0 0		
		Ananda Biswas	Do.	Harauldaha	1,000 0 0		
		Joy Krishna Karani	Do.	Remanpur	500 0 0		
		Atal Biswas	Do.	Joyrampur	1,000 0 0		
Khowda	Khowda	Maniruddin Uki	Do.	Barnchandgarh	300 0 0		
		Bhajan Sheik	Do.	Ditto	500 0 0		
		Srinati Nonsimoni Kamarni	Do.	Barnia	1,200 0 0		
		Om Biswas	Do.	Abhayanagore	600 0 0		
		Iswar Biswas	Do.	Barnia	400 0 0		
		Nabin Malita	Do.	Kunjansore	200 0 0		
		Hakim Biswas	Do.	Kandaha	400 0 0		
		Babu Khetra Nath Biswas	Do.	Ikuri	600 0 0		
		Panchu Mandal	Murfid	Minapara	1,000 0 0		
		Works costing less than Rs. 200 each			1,158 0 0		
Jessore	Jessore	Babu Kalidas Ghose	Tank	Majipore	550 0 0		
		Chitoo Kuan	Do.	Modhakul	540 0 0		
		Jahur Chandra Duba	Road	Patpur	200 0 0		
		Imaharath Mondal	Tank	Balabhadrapur	400 0 0		
		Kazi Gawnali	Do.	Guadpore	350 0 0		
		Babu Fakir Chandra Choudhury	Do.	Balkora	300 0 0		
		Babu Garib Das Mohanta and others	Re-excavation of a tank	Banikola	550 0 0		
		Damodar Mondal	Tank	Paridpore	1,000 0 0		
			Masonry ghat on the river side.	Khagra	400 0 0		
Dinapore	Dinapore	Bani Mondal, of Baidyabati, police station Patkila.	Tank	Baidyabati	700 0 0		
		Mutam Mondal, of Foranagore, police station Patkila.	Do.	Foranagore	800 0 0		
		Ram Durlabh Thakur, of Souribollal, police station Kotwali.	Do.	Souribollal	600 0 0		
		Jenabai Fakir, of Borodighi, police station Chintamon.	Do.	Borodighi	350 0 0		
		Narainulab Mondal, of Borodighi, police station Chintamon.	Do.	Ditto	325 0 0		
		Shorabulab Mondal, of Borodighi, police station Chintamon.	Do.	Ditto	325 0 0		
		Amulab Dewan, of Amta, police station Chintamon.	Do.	Amta	700 0 0		
		Bangroo Ghose, of Delipore, police station Thakurgaon.	Do.	Delipore	1,000 0 0		
		Hangan Khawa Sirkar, of Hossainpore, outpost Chitabander.	Do.	Hossainpore	200 0 0		
		Johar Mohamed Sirkar, of Bolla, police station Chintamon.	Do.	Bolla	200 0 0		
Carried over					5,900 0 0		

\* Rs. 2,500 were spent on this work in 1889.

\* Rs. 2,750 ditto ditto.

\* The total amount contributed for this work was Rs. 1,070. The balance in hand will be utilised in course of the present year.

\* The total amount contributed for this work was Rs. 2,400. Rs. 778-8-4, which are still in hand, will be expended in the current year for completing the work.

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of divisions.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
				Brought forward	5,900 0 0		
	Dinapore-consolid.	Tara Charan Bhardwaj, of Nalpaohagora, outpost Patiram.	Tank	Nalpaohagora	350 0 0		
		Shamshulaj Mondal, of Bodar, police station Patiram.	Do.	Bodar	400 0 0		
		Medhu Mondal, of Lakshimpore.	Do.	Lakshimpore	400 0 0		
		Khamin Buhai Mondal, of Mirzapore, police station Porsha.	Do.	Mirzapore	300 0 0		
		Kulim Mirza, of Nithpore, police station Porsha.	Do.	Nithpore	400 0 0		
		Works costing less than Rs. 500 each			500 0 0	7,075 0 0	
	Rajshahye	Albar Mondal	Tank	Bomansikhar	400 0 0		
		Mondal Mondal	Do.	Bomansikhar	400 0 0		
		Uzoor Shaha	Do.	Idita	400 0 0		
		Bhela Mondal	Do.	Sodepore	1,000 0 0		
		Shamshulaj Mondal	Do.	Bijni	300 0 0		
		Shamshulaj Mondal	Do.	Nurulabad	400 0 0		
		Tajon Mirza	Do.	Alapore	700 0 0		
		Rupa Pramanick	Do.	Kanungur	1,000 0 0		
		Nathulaj Mondal	Do.	Shole	1,000 0 0		
		Purna Shaha	Do.	Bansbaria	1,000 0 0		
		Shahedi Bantabi	Do.	Tenarabari	300 0 0		
		Badr Sirdar	Do.	Kachna	500 0 0		
		Fakir Mondal	Do.	Dugapore	500 0 0		
		Shamshulaj Khondker	Do.	Paharpore	400 0 0		
		Kankana Nupit	Do.	Kai Mohar	300 0 0		
		Jamir Nulaji	Do.	Bhutia	1,000 0 0		
		Sato Mondal	Do.	Chukla	400 0 0		
		Nizam Akond	Do.	Mukhtarpore	600 0 0		
		Rajab Shaha	Do.	Jushpore	700 0 0		
		Gopi Mohan Sirkar	Do.	Chapra	400 0 0		
		Brahma Moye Datta	Do.	Do	400 0 0		
		Ramswar Panchayat	Do.	Ayza	500 0 0		
		Mou Mondal	Do.	Siakol	700 0 0		
		Gudur Mondal	Do.	Lalitohit	500 0 0		
		Abir Mondal	Do.	Chinnai	500 0 0		
		Mou Mondal	Do.	Panchanand	600 0 0		
		Noji Mondal	Repairs to a tank	Jas. la	300 0 0		
		Umar Mondal	Tank	Darabpore	500 0 0		
		Koti Sirdar	Do.	Phulbari	500 0 0		
		Harnu Pramanick	Do.	Kopukhuria	400 0 0		
		Dighapattin Estate	Do.	Gurumandir	1,000 0 0		
		Hara Mondal	Do.	Pakpara	500 0 0		
		Khal Sirkar	Do.	Ranchandrapore	700 0 0		
		Shamir Mondal	Do.	Kanara Kajapore	500 0 0		
		Mohur Mondal	Do.	Kanara, Kristopore	500 0 0		
		Jorip Pramanick	Do.	Sankarpur	1,000 0 0		
		Huina Meer	Do.	Brisakardaha	500 0 0		
		Kumar Jogendra Nath Rai	Do.	Kulapara	5,000 0 0	8,750 0 0	
	Rangpore	Indramani Dasi	Tank	Shitrampore, thana Sadulapore.	500 0 0		
		Arasula Mondal	Do.	Harnimari, outpost Palashbaria.	200 0 0		
		Jair Gachoo	Do.	Nowda, outpost Palashbaria	300 0 0		
		Nabar Mondal	Do.	Dighalkandi, outpost Palashbaria.	300 0 0		
		Abdul Aziz	Do.	Gujalipore, outpost Palashbaria.	275 0 0		
		Bhola Nath Dasi	Do.	Draumar Khumar, outpost Phulbari.	500 0 0		
		Pooja Sankari	Do.	Dholaunga, outpost Phulbari.	500 0 0		
		Lakmi Narayan Dasi	Do.	Shamrayan, police station Kaligunge.	200 0 0		
		Tahoor Mohamed, Patwari	Masonry well	Nawalgunge beaur, police station Kotowal.	200 0 0		
		Works costing less than Rs. 500 each			150 0 0	5,000 0 0	
	Bogra	Tasmeed Mondal	Tank	Maldanahata, thana Shibgunge	525 0 0		
		Manulab Akonda	Do.	Haludgi, thana Adandighi	500 0 0		
		Jurullah Fakir	Do.	Parker Dair, thana ditto	500 0 0		
		Jana Sirdar	Do.	Shail, ditto ditto	500 0 0		
		Mana Pramanick	Do.	Sella, ditto ditto	500 0 0		
		Gudura Sirdar	Do.	Purghurighi, ditto ditto	1,000 0 0		
		Rafat Ghilab Khondker	Do.	Daura, ditto ditto	400 0 0		
		Shori Akonda	Do.	Halikora, ditto ditto	700 0 0		
		Patanu Pramanick	Do.	Khabpore, ditto ditto	700 0 0		
		Kanchi Ram Sirkar	Do.	Mothpore, ditto Nalabgunge.	500 0 0		
		Gorib Khan	Do.	Panchulgram, thana Khetla.	500 0 0		
		Babaruddin Khondker	Do.	Ditto ditto	500 0 0		
		Husnat Ali Khondker	Do.	Ditto ditto	500 0 0		
		Works costing less than Rs. 500 each			350 0 0	5,125 0 0	
	Patna	Durga Pramanick Rai	Tank	Boro Daura, thana Balai	200 0 0		
		Raja Jogendra Nath, Rai Bahadur	Do.	Mosshagore, thana Chaitmohur.	1,000 0 0		
		Jamir Karigar	Do.	Harpore, thana Chaitmohur	1,700 0 0		
		Jadab Chandra Saha	Do.	Ranjna, thana ditto	2,000 0 0		
		Jogur Sirdar	Do.	Rangoln, thana ditto	400 0 0		
		Gobinda Nath Saha Choudhury	Do.	Mouglagram, thana Chaitmohur.	2,000 0 0		
		Chand Pramanick	Do.	Hetram, thana Chaitmohur	500 0 0		
		Iwar Chandra Ghosh	Do.	Baghore, thana Utkapara	1,200 0 0		
		Kashi Nath Borthun	Do.	Hughuram, thana Utkapara	1,000 0 0		
		Rajon Chand Pramanick	Do.	Choralmoori, thana ditto	1,000 0 0		
		Shahin Hazi	Do.	Shamrayan, thana ditto	1,000 0 0		
		Krishna Behari Rai, samikdar	Do.	Majumgram, thana ditto	5,000 0 0		
		Bedu Abdul	Do.	Lakmi Shahu Prasad, thana Raigunge.	700 0 0		
		Adam Hazi	Do.	Brama, thana Raigunge	200 0 0		
		Shayur Pramanick	Do.	Nirpacha, thana Raigunge	700 0 0		
		Nodu Akonda	Do.	Dhulgram, thana Raigunge	700 0 0	18,700 0 0	
				Carried over		84,000 0 0	



District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of divisions.
				Rs. A. P.	Rs. A. P.	Rs. A. P.
			Brought forward		44,000 0 0	
Darjeeling	NH.	NH.	NH.	NH.		
	His Highness the Maharajah of Cooh Behar.	Wooden bridges	Patgram, on the road from Patgram to Morangabat.	4,078 0 0		
	Ditto	Repairs to Dhurka bridge.	Patgram	2,123 10 0		
	Ditto	Repairs to Patgram to Morangabat road.	Ditto	250 0 0		
Jalpaiguri	Ditto	Well	Rajnagar in Boda	200 0 0		
	Ditto	Repairs to the emigration roads.		500 0 0		
	Works costing less than Rs. 200 each			877 0 0	7,022 10 0	71,908 10 0
Dacca	Hari Krito Poddar	Tank	Kelakopa Bazar	2,000 0 0		
	Babu Lohi Chandra Sen	Do.	Surkaj	300 0 0		
	" Rati Nath Bose	Do.	Seimgar	850 0 0	2,450 0 0	
Furzedpore	Babu Bura Chaman Ghose	Tank	Naraindia	400 0 0		
	Unal Ali Meah	Do.	Searail	500 0 0		
	Guru Chaman Biswas	Do.	Urakandi	500 0 0		
	Jan Khan	Do.	Hazimpore	500 0 0		
	Fajladdi Munshi	Do.	Madanipore	250 0 0		
	Babok Joydar	Do.	Shoudhur	250 0 0		
	Raj Kumar Mazumdar	Do.	Chowras Basitpore	250 0 0		
	Nalin Majumdar	Do.	Bramhandi	500 0 0		
	Chowkri Mridha	Do.	Darbarly	500 0 0		
	Pathan Eliah	Do.	Nandy Manarkandi	500 0 0		
	Mohim Chandra Das	Do.	Pachin Dabhihkhadi	400 0 0		
	Rajal Mandal	Do.	Khanardangi	1,000 0 0		
	Prasanna Kumar Chakravarti	Do.	Rajpur	500 0 0		
	Kelal Dhal	Do.	Halsipath	200 0 0		
	Works costing less than Rs. 200 each			1,067 0 0	8,457 0 0	
Bachengunge	Param Talukdar	Tank	Bapta, station Bhoia	300 0 0		
	Talukdar	Do.	Medua	500 0 0		
	Abdul Rohim Munshi	Do.	Manika, station Berhameddy	575 0 0		
	Nasraddi Bakin	Do.	Kali Kinkor Berhameddy	200 0 0		
	Hera Bandari Choudhuran	Do.	Ranigunge hat, Berhameddy	250 0 0		
	Nyamainlah Akond	Do.	Darail Berhameddy	200 0 0	1,025 0 0	
Mymensingh	Intas Shaikh	Tank	Khagadur, station Kotwali	300 0 0		
	Emal Napi	Do.	Ditto ditto	500 0 0		
	Imam Krito Do	Do.	Dhitrora-Durgapore	425 0 0		
	Mahomed Jan Sarkar	Do.	Dapunta-Kotwali	425 0 0		
	Tanz Shaikh	Do.	Ditto	500 0 0		
	Gazi Mahmud Shaikh	Do.	Daribhabokhali-Kotwali	325 0 0		
	Khadoo Shaikh	Do.	Kampore-Durgapore	400 0 0		
	Amal Sarkar	Do.	Solimpore-Kotwali	325 0 0		
	Rohatn Mandal	Do.	Ditto	400 0 0		
	Lake Nath Nandi	Do.	Beharndi-Durgapore	400 0 0		
	Hudus Mandal	Do.	Bota-Durgapore	400 0 0		
	Chandi Sarkar	Do.	Parangunge-Kotwali	500 0 0		
	Amundjan	Do.	Rhobokhali-Kotwali	400 0 0		
	Raja Shaikh	Do.	Mehentson, station Phulbari	500 0 0		
	Rahman Shaikh	Do.	Shurcorpar, ditto	500 0 0		
	Hindu Chaug	Do.	Chakradhakumai, ditto	700 0 0		
	Jafar Sarkar	Do.	Andharinpara, ditto	500 0 0		
	Moun Mandal	Do.	Ditto, ditto	500 0 0		
	Idu Sarkar	Do.	Radhakandi, ditto	500 0 0		
	Nerani Manjhi	Do.	Ditto, ditto	500 0 0		
	Idu Shaitb	Do.	Chowder, ditto	500 0 0		
	Nasir Mandal	Do.	Natupara, ditto	375 0 0		
	Ali Fakir	Do.	Parjona, ditto	400 0 0		
	Karamat Akon	Do.	Anirabari, ditto	400 0 0		
	Adi Mandal	Do.	Parpara, station Phulbari	700 0 0		
	Fati Kulu	Do.	Kushmali, ditto	350 0 0		
	Brindaban Bairagi	Do.	Nowong, ditto	350 0 0		
	Ram Kumar Mandal	Do.	Mohari, ditto	350 0 0		
	Khalu Han	Do.	Anantpur, ditto	500 0 0		
	Nanu Shaikh	Do.	Ditto, ditto	400 0 0		
	Bishu Gopin	Do.	Rangapalpara, station Isur-gunge	500 0 0		
	Gulab Chandra Maumdar	Do.	Bagula, ditto	400 0 0		
	Sachan Chakravarti	Do.	Tarai, ditto	300 0 0		
	Adhar Shaikh	Do.	Hosainpur, ditto	400 0 0		
	Jaharati Choudhuran	Do.	Buteh-Tangail	2,000 0 0		
	Adyat Chandra Pal	Do.	Dhalein-Tangail	1,500 0 0		
	Tith Sarkar	Do.	Chandhar-Gopalpara	400 0 0		
	Kamal Chandra Chakravarti	Do.	Kandehari-Gopalpara	500 0 0		
	Murga Sarkar	Road	Jashara to Subgunge, station Gufargan.	700 0 0		
	Jadab Lal Shah	Do.	Duxanti to Golabari, station Tangail.	400 0 0		
	Works costing less than Rs. 200 each			500 0 0	19,100 0 0	81,488 0 0
Tipperah	Kunja Behari Wanti	Tank with masonry	Cumilla town	500 0 0		
	Lechan Das	Do.	Kutorapara	200 0 0		
			Carried over	500 0 0		

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand of the
					Rs. A. P.	Rs. A. P.	
				Brought forward	500 0 0		
CHITTAGONG —continued.	Tipperah	Ram Nath Das	Tank	Dokori Khon	400 0 0		
		Gulak Chandra Chuckerbutty	Do.	Chanda Bagardi	200 0 0		
		Bharat Shaha	Do.	Jamoutpur	350 0 0		
		Rodun Shaha	Do.	Morath	700 0 0		
		Mohammed Moamen	Do.	Alinagar	400 0 0		
		Kulir	Do.	Gobindopur	500 0 0		
		Mossanaddi Paquir	Do.	Kandla	300 0 0		
		Abdul	Do.	Dari Bichanania	300 0 0		
		Kohimodul	Do.	Chaugunge	300 0 0		
		Shamboo Shaha	Do.	Kaokrishnapur	450 0 0		
		Dengu Hal	Do.	Dinto	400 0 0		
		Keshab Chandra	Do.	Alukpur	500 0 0		
		Shik Maam	Do.	Khandura	250 0 0		
		Nasima Bhanu, zemindar	Do.	Chaprainola	300 0 0		
		Works costing less than Rs. 200 each	Re-excavation of a tank		450 0 0	6,800 0 0	
	Nonchally	Ram Kumar Das, mahajan	Re-excavation of a tank	Near the Munsif's court at Sandeep.	500 0 0		
		Arun Ali	Tank	Pachin Chagalya	200 0 0		
	Chittagong	Moonari Dey	Tank	Karoyanagore-Satsanesh	200 0 0	300 0 0	
		Ram Sunder Miatra	Road	Bajajalagram-Baikaneah	240 0 0		
		Works costing less than Rs. 200 each			120 0 0		
	Chittagong Hill Tracts.	Nil	Nil	Nil	Nil	600 0 0	8,000
	Patna	Babu Rajia Nath Singh	Well	Mohamedpore	200 0 0		
		Works costing less than Rs. 200 each			123 0 0	325 0 0	
Oya		Bulakti Lal	Well	Beldari	200 0 0		
		Gulab Chund Sahu	Do.	Novira Bigha	250 0 0		
		Mir Baharat Hossain	Do.	Tarva	250 0 0		
		Ram Nath Pandit	Do.	Sarao Tour	200 0 0		
		J. Alexander, Esq.	Do.	Imamgunj	400 0 0		
		Musomath Anupama Kuwar	Do.	Gurhatti	300 0 0		
		Paras Koori	Do.	Purni	200 0 0		
		E. Bolano, Esq.	Embankment	Parroary	485 6 0		
		Dinto	Do.	Seilgrah	345 12 0		
		Dinto	Do.	Suamainpore Radir	250 0 0		
		Dinto	Do.	Banpore	254 14 0		
		Works costing less than Rs. 200 each			8,056 7 0	8,711 8 3	
Shahabad		Ritaram Singh	Tank	Begaind	1,000 0 0		
		Nakohedi Ram	Masonry well	Boghanathpore	500 0 0		
		Biseshari Bhugat	Do.	Dhansal	500 0 0		
		Jadu Nondra Singh	Do.	151	500 0 0		
		Adit Prasad Singh	Do.	Nagri	500 0 0		
		Bow Suren Lal	Do.	Murar	500 0 0		
		Maharajah of Doomsen	Do.	Etakian	500 0 0		
		Padaruth Ram	Do.	Borhampore	500 0 0		
		Works costing less than Rs. 200 each			2,750 0 0	5,734 0 0	
PATNA		Gopal Tell	Tank	Harhi	500 0 0		
		Najia Jha	Do.	Bahia Salampore	400 0 0		
		Gurab Dai Singh	Do.	Najia Jhal	300 0 0		
		Tulshi Mander	Do.	Dhansain	275 0 0		
		Hira Jha	Do.	Gobar	500 0 0		
		Bhikhari Dass	Do.	Do.	700 0 0		
		Bahu Lal Kuar	Do.	Kandi	400 0 0		
		Lalit Singh	Do.	Sarua	500 0 0		
		Shanki Sahoo	Do.	Pal	700 0 0		
		Bachan Rai	Do.	Budha	500 0 0		
		Baham Lal Jha	Do.	Harwa	700 0 0		
		Chulhal Choudhri	Do.	Patali	700 0 0		
		Jalal Ram	Well	Nargahat	375 0 0		
		Mahant Ram	Tank	Do.	500 0 0		
		Lachman Koiri	Well	Do.	300 0 0		
		Lakhar Mian	Tank	Matinagar	300 0 0		
		Fakir Kurni	Do.	Sunderpur	500 0 0		
		Kesho Thakur	Do.	Parthapur	500 0 0		
		Hachu Babu	Do.	Mahutur	500 0 0		
		Sant Babia	Do.	Bahampur	500 0 0		
		Ram Lal Choudhri	Do.	Sarson	500 0 0		
		Manorath Khawas	Do.	Bhanara	8,000 0 0		
		Gulab Misir	Do.	Bachopur	2,000 0 0		
		Shakti Amarnath	Do.	Matinagar	2,000 0 0		
		Madhu Thakur	Do.	Sansul	500 0 0		
		Jadoo Jha	Do.	Mulnabi	1,000 0 0		
		Gobind Sahoo	Do.	Pathara	500 0 0		
		Durbhanga		Jogal Kishwar Bahu	Do.	Bhair	500 0 0
Ramchand Gawa	Do.			Bolnagar	500 0 0		
Abdul Ostar	Do.			Andra	500 0 0		
Khodoo Jutt	Do.			Bhindwa	500 0 0		
Peary Jha	Do.			Kakarwa	400 0 0		
Ranki Raut	Do.			Raham	275 0 0		
Jalpadutt Jha	Tank			Kamelpur	500 0 0		
Faroo Bundi	Do.			Kutala	1,000 0 0		
Hodhan Sahoo	Do.			Kachwa	1,000 0 0		
Lakhia Tella	Do.			Sankata	1,000 0 0		
Fatoori Misir	Do.			Bairaha	1,000 0 0		
Fatari Mian	Do.			Kurwara	1,000 0 0		
Achhari Mian	Do.			Montas	1,000 0 0		
Mangal Misir	Do.			Do.	1,000 0 0		
Maharaja of Durbhanga	Do.			Parjuar	1,000 0 0		
Ditto	Do.			Pal	1,000 0 0		
Shib Charan Chaudhri	Do.			Benipatti	1,000 0 0		
Gondar Jha	Do.			Ditto	1,000 0 0		
Gudar Thakur	Do.			Loharania	200 0 0		
Ram Charan Choudhri	Do.			Karstar	400 0 0		
Bulak Bahari	Do.			Khirha	700 0 0		
Bachoo Sahoo	Do.			Rahman	500 0 0		
Rahumani Sahoo	Do.			Sahampur	500 0 0		
Shoo Charan Dass	Do.			Ditto	500 0 0		
Mahant Lalit Dass	Do.			Ditto	500 0 0		
Musomath Lalit Kuar	Do.			Madhnapur	1,500 0 0		
Lachal Bah	Do.			Wishenpur	500 0 0		
Aghori Khawas	Do.			Bucwaria	500 0 0		
Girka Gope	Do.	Sonpatti	500 0 0				
Siram Raut	Do.	Kailapur	200 0 0				
			Darwara	500 0 0			
Carried over					43,640 0 0	14,777 8 8	



DIVISION.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.		Total of district.	Grand total of division.
					Rs.	A. P.		
				Brought forward	42,425	0 0	14,777	8 3
		Malini Kant	Tank	Darwara	800	0 0		
		Mohi Lal Sondil	Do.	Machhaura	300	0 0		
		Kanpu Kant	Do.	Ditto	800	0 0		
		Mahabhan Singh	Do.	Kabiali	300	0 0		
		Narayan Singh	Do.	Machhudi	600	0 0		
		Kanti Kant	Do.	Bachli	250	0 0		
		Mahabhan Singh	Well	Gubhali	200	0 0		
		Udan Kant	Tank	Machhudi	1,500	0 0		
		Jhanku Kant	Well	Sidhap Kalla	400	0 0		
		Induram Singh	Tank	Patli Sachli	600	0 0		
		Mohi Kant	Do.	Machhudi	1,000	0 0		
		Gauri Kant	Do.	Ditto	400	0 0		
		Mahabhan Singh	Well	Gajabhan	1,100	0 0		
		Banwar Singh	Well	Tala Kichal	1,000	0 0		
		Mahabhan Singh	Well	Gauri	1,000	0 0		
		Mahabhan Singh	Well	Amir	1,000	0 0		
		Mahabhan Singh	Well	Kakenthobh	800	0 0		
		Mahabhan Singh	Well	Sachli	800	0 0		
		Mahabhan Singh	Well	Shupthali	1,000	0 0		
		Mahabhan Singh	Well	Ditto	400	0 0		
		Mahabhan Singh	Well	Pharpar	500	0 0		
		Mahabhan Singh	Well	Ditto	400	0 0		
		Mahabhan Singh	Well	Mourdi	200	0 0		
		Mahabhan Singh	Well	Gudhali	500	0 0		
		Mahabhan Singh	Well	Kachari	500	0 0		
		Mahabhan Singh	Well	Dhananjai	1,000	0 0		
		Mahabhan Singh	Well	Induram	500	0 0		
		Mahabhan Singh	Well	Pasari	700	0 0		
		Mahabhan Singh	Well	Naimi Jakhari	700	0 0		
		Mahabhan Singh	Well	Baharwa	700	0 0		
		Mahabhan Singh	Well	Ditto	700	0 0		
		Mahabhan Singh	Well	Ditto	600	0 0		
		Mahabhan Singh	Well	Murdi	600	0 0		
		Mahabhan Singh	Well	Shupthali	500	0 0		
		Mahabhan Singh	Well	Machhudi	500	0 0		
		Mahabhan Singh	Well	Sachli	500	0 0		
		Mahabhan Singh	Well	Pharpar	500	0 0		
		Mahabhan Singh	Well	Ditto	500	0 0		
		Mahabhan Singh	Well	Pharpar	500	0 0		
		Mahabhan Singh	Well	Ditto	500	0 0		
		Mahabhan Singh	Well	Pharpar	500	0 0		
		Mahabhan Singh	Well	Ditto	500	0 0		
		Mahabhan Singh	Well	Pharpar	500	0 0		
		Mahabhan Singh	Well	Ditto	500	0 0		
		Mahabhan Singh	Well	Pharpar	500	0 0		
		Mahabhan Singh	Well	Ditto	500	0 0		
		Mahabhan Singh	Well	Pharpar	500	0 0		
		Mahabhan Singh	Well	Ditto	500	0 0		
		Mahabhan Singh	Well	Pharpar	500	0 0		
		Mahabhan Singh	Well	Ditto	500	0 0		
		Mahabhan Singh	Well	Pharpar	500	0 0		
		Mahabhan Singh	Well	Ditto	500	0 0		
		Mahabhan Singh	Well	Pharpar	500	0 0		
		Mahabhan Singh	Well	Ditto	500	0 0		
		Mahabhan Singh	Well	Pharpar	500	0 0		

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.		Total of districts.	Grand total of divisions.
					Ra. A. P.	P.		
				Brought forward	85,734	0 0	1,33,342	6 3
		Musai Mahle	Tank	Kurabuma	1,800	0 0		
		Bandai Mander	Do.	Raghunaga	600	0 0		
		Bandar Ram Kandoe	Do.	Sursund	450	0 0		
		Thaga Jindia	Do.	Hudunpura	200	0 0		
		Shelkh Rahmatollah	Do.	Persa	200	0 0		
		Mohini Shie ram Das	Do.	Sursund	1,600	0 0		
		Shelkh Moolahalla	Do.	Adulpara	700	0 0		
		Gopal Jha	Do.	Malahi	500	0 0		
		Kishorlal Jha	Do.	Radhoo	500	0 0		
		Mussonat Anpochia	Do.	Belahia	500	0 0		
		Lachman Gowda	Do.	Borghari	500	0 0		
		Sathar Sahoo Tell	Do.	Bhitha	500	0 0		
		Lalla Jha	Do.	Do.	2,100	0 0		
		Mussonat Rajhuna Koor	Do.	Sursund	700	0 0		
		Munier Kumbhar	Do.	Bisputi	1,000	0 0		
		Mussonat Rajhuna Koor	Do.	Imarwa	700	0 0		
		Thak Mander	Do.	Sunehi	2,000	0 0		
		Rama Gowan	Do.	Kam Bhinabi	1,000	0 0		
		Rheop Thakur	Well	Harari	500	0 0		
		Narain Tewari	Tank	Mukhabunia	500	0 0		
		Ramdhari Jha	Do.	Hidrah	1,800	0 0		
		Gobind Dewari	Do.	Harari	500	0 0		
		Shikh Bhaer Hamaia	Well	Gopara	500	0 0		
		Maharaj of Hutwa	Tank	Hidrah	700	0 0		
		Mohini Sheoraj Gir	Do.	Murha	700	0 0		
		Haji Begumdan Singh	Well	Shonhar	500	0 0		
		Tulsi Chha	Tank	Gharwara	500	0 0		
		Sooti Jha	Do.	Bahocara	500	0 0		
		Bhujant Singh	Do.	Chounghara	500	0 0		
		Ramdhari Koor	Do.	Sarhachia	1,000	0 0		
		Works costing less than Rs. 500 each			14,328	0 0	74,022	0 0
		Babu Nand Kumar Lal	Well	Bamharpara	500	0 0		
		Chintaman Mahle	Do.	Ami	500	0 0		
		Mahabhi Man	Do.	Pharhad	500	0 0		
		Bihari Sahi Kulwar	Do.	Lohiji	500	0 0		
		Maharaj of Hutwa	Do.	Raton Chuk	500	0 0		
		Isht Singh	Do.	Makhdungunge	500	0 0		
		Kula Rawat	Do.	Lodhpore	400	0 0		
		Chulam Hussain	Do.	Rajpur-Jalipore	500	0 0		
		Rampalook Kout	Do.	Kacipore	500	0 0		
		Dular Chand Sahu	Do.	Bhanowara	500	0 0		
		Mussonat Lacho Bibi	Do.	Udaipura	500	0 0		
		Bihar Bhai	Do.	Asan	500	0 0		
		Gorokh Singh	Do.	Sadpur	500	0 0		
		Nua Ali alias Naul Man	Do.	Bito	500	0 0		
		Nawal Bai	Do.	Bijn Gonda	500	0 0		
		Hartik Mathia	Do.	Paliezah	500	0 0		
		Chutardhar Ahir	Do.	Bito	500	0 0		
		Tilok Lal	Do.	Bito	500	0 0		
		Ramharitar Singh	Tank	Chandpara	1,000	0 0		
		Batu Lal	Do.	Agrovi	400	0 0		
		Babu Lachmi Narain Singh	Do.	Arum	500	0 0		
		Ditto	Do.	Piprahia	5,000	0 0		
		Works costing less than Rs. 500 each			20,057	0 0	31,507	0 0
		Bichol Bhagat	Tank	Rollwani Leyan	500	0 0		
		Hira Teli	Do.	Machumabit	500	0 0		
		Sekh Kadali	Do.	Ditto	500	0 0		
		Deep Chand Ahir	Well	Gokhda	500	0 0		
		Babu Sahon Pergash Sing	2 Tanks	Machumabit	2,500	0 0		
		Khadun Ali	Bridge	Nawa Dih	250	0 0		
		Babu Lachman Pershad	Tank	Nawa Palna	1,000	0 0		
		Gopal Bana	Well	Kandaria	500	0 0		
		Gopal Pandey	3 Wells	Bacchi	500	0 0		
		Wife of Chulahi Teli	Tank	Chintamanpore	1,500	0 0		
		Shelkh Hussain Ali	Do.	Dumtali	500	0 0		
		Gulam Jha	Do.	Ditto	500	0 0		
		Shelkh Kitab Ali	Do.	Barewah	500	0 0		
		Dumantih Koori	Well	Gorhamwah	500	0 0		
		Sarabjit Koori	Do.	Ditto	500	0 0		
		Moontrun Koori	Tank	Kamarcholi	500	0 0		
		Sir Bar	Do.	Shahin	500	0 0		
		Barakh Dubey and Chhoda, &c.	Do.	Patari village	500	0 0		
		Jairam Sah Teli	Do.	Kalishah	500	0 0		
		Tink Roy	Do.	Ratan Ban	500	0 0		
		Alunkh	Do.	Machumabit	500	0 0		
		Shelkh Bhikham and Boedh Ahir	Do.	Kandaria	500	0 0		
		Narain Sah	Well	Dumtali village	500	0 0		
		Patik Dandh	Tank	Ragha	500	0 0		
		Jooti Teli	Do.	Chinwadana	500	0 0		
		Babu Beni Bhawan	Do.	Bholwa Bazar	500	0 0		
		Deekhi Misar	Do.	Pipa	500	0 0		
		Purneswar Tewari	Well	Budipore	500	0 0		
		Thakur Chowbey	Do.	Rampurwa	500	0 0		
		Works costing less than Rs. 500 each			15,163	0 0	35,842	0 0
		Ram Sahay Bhagat	Tank	Mahangunge	400	0 0		
		Mussonat Champa, daughter of Nak- too Singh.	Do.	Pala	500	0 0		
		Ram Lal Kumbhar	Do.	Dumtali	500	0 0		
		Banda Pandey	Do.	Karamai	500	0 0		
		Megh Lal Roy	Do.	Daria, Banda, Banga	500	0 0		
		Ambari Prasad	2 Tanks	Nawagurhi	500	0 0		
		Ganowri Mahlon	Masonry wall	Paharpore	500	0 0		
		Lala Singh	Do.	Muthari	500	0 0		
		Munshi Munder	Do.	Borhi	500	0 0		
		Ghorbat Kandoe	Do.	Indupur	500	0 0		
		Pali Singh	Do.	Burma	500	0 0		
		Keeba Singh	Do.	Balima	500	0 0		
		Ishtwar Poddar	Do.	Uri	500	0 0		
		Mander Munder	Do.	Kundalyachak	500	0 0		
		Ruphal Rai	Do.	Burhari	500	0 0		
		Kem Rai	Do.	Pipa Chowtham	500	0 0		
		Hazhar Chowdhry	Do.	Begusarai chm	500	0 0		
		Chandi Charan Singh	Do.	Khamthi	500	0 0		
		Nankai Naban	Do.	Majhuni	500	0 0		
		Sital Singh	Do.	Dumtali	500	0 0		
		Sekhan Shah	Do.	Begumpur	500	0 0		
		Kuru Dhanook	Do.	Gowra	500	0 0		
		Prinath Lal	Do.	Lakhanpur	500	0 0		
		Mangal Sahu	Do.		500	0 0		
		Works costing less than Rs. 500 each			8,060	0 0		

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand total of division.
					Rs. A. P.	Rs. A. P.	Rs. A. P.
				Brought forward	2,350 0 0		
		Musammat Ganesa Kalwarin	Masonry wall	Manwar Chowk	228 0 0		
		Amal Rai	Do.	Rajapur	250 0 0		
		Ramesh Shah	Do.	Barn	200 0 0		
		Musammat Patasin, wife of Dharmoo Singh.	Do.	Sahora	250 0 0		
		Lachman Choudhry	Do.	Tai	200 0 0		
		Bansi Misser	Do.	Lakhanpur	250 0 0		
		Birga Gope	Do.	Begumera	200 0 0		
		Raj Nath Choudhry	Do.	Ahipur	200 0 0		
		Zahari Lal	Do.	Kabulpur	250 0 0		
		Bai Nath Singh	2 Wells	Amawa	200 0 0		
		Ganesh Prasad	Well	Belori	200 0 0		
		Petar Mahon	Do.	Ekrawa	200 0 0		
		Bobrad Mirjan	2 Wells	Chandradip	250 0 0		
		Works costing less than Rs. 200 each			3,881 0 0		
		Raj Durbhanga	Bandh and Pyna	Anwar Girdhari	300 0 0	14,100 0 0	
		Ditto	Do.	Rela Singor Mati	600 0 0		
		Ditto	Do.	Jhiki Jorwari	217 0 0		
		Ditto	Do.	Nandpur Kumbhal	100 0 0		
		Ditto	Do.	Najabnaba	294 0 0		
		Ditto	Do.	Purna Vada	081 0 0		
		Ditto	Do.	Pegura Khare	250 0 0		
		Ditto	Do.	Kishanpur	501 0 0		
		Ditto	Do.	Sukhman	547 0 0		
		Ditto	Do.	Mork Monopur	041 0 0		
		Ditto	Do.	Bhapchali	243 0 0		
		Ditto	Do.	Ditoli	054 0 0		
		Ditto	Do.	Mutanpurbonona	050 0 0		
		Ditto	Do.	Budharwa	015 0 0		
		Ditto	Do.	Sadanandpur	512 0 0		
		Ditto	Do.	Kawalour	705 0 0		
		Ditto	Do.	Jhiki Saidpur	257 0 0		
		Ditto	Do.	Digha	3,015 0 0		
		Ditto	Do.	Kanoul	545 0 0		
		Ditto	Do.	Gangpur Doodhola	013 0 0		
		Ditto	Do.	Nikrapatta	1,130 0 0		
		Ditto	Do.	Shalpur Kirchipott	305 0 0		
		Ditto	Do.	Dharharwa	215 0 0		
		Ditto	Do.	Bowmha	489 0 0		
		Ditto	Do.	Gopalpur Rapowli	401 0 0		
		Ditto	Do.	Balan	450 0 0		
		Ditto	Do.	Malik Sanpataha	320 0 0		
		Ditto	Do.	Katia	263 0 0		
		Ditto	Do.	Chandhanwananagar	302 0 0		
		Ditto	Do.	Dagnara	1,314 0 0		
		Ditto	Do.	Anwar Girdhari	1,530 0 0		
		Jhanti Mandar, Maloo Mandar, and Rhat Lal Mandar.	2 Tanks	Ahanpur Kupoba	1,800 0 0		
		Agarjot and Totai Mandar	4 do.	Belainagar Mote	1,576 0 0		
		Jhoomuk Das, Hootai, Katri Gopal Bader.	4 do.				
		Girdhari Mandar	Tank	Sirri	030 0 0		
		Hari Nath Misra, Bhikari Mandar and Brij Lal Gope.	1 Tanks	Jogdispur Jhowai	1,300 0 0		
		Jhoomen Mandar, Shola Mandar and Girdhari Kumat.	4 do.	Jhiki Jerawli	1,005 0 0		
		Gander Misser	2 do.	Khap Khataguri	378 0 0		
		Nandi Sant	Tank	Khapbholia	450 0 0		
		Ranhuja Mandar	Do.	Korailanpur	855 0 0		
		Kumar Mandar	Do.	Majhwal Mahowa	605 0 0		
		Nathoo Mandar, Manjhi, Lowji, Shithur Mandar.	3 Tanks	Kapbholia	1,400 0 0		
		Hira Sahou	1 do.	Nirmali	1,351 0 0		
		Somman Mandal, Hor Charan Sahou, and Bhimuk Mandal.	4 do.	Purna Madhe	1,613 0 0		
		Daman Mandal	Tank	Simraha	400 0 0		
		Dhan pot Bader	Do.	Thari Lachmazia	031 0 0		
		Haribar Pathuk, Hooree Mandal and Luchman Moli.	3 Tanks	Sookhman	1,305 0 0		
		Parpati Mandal	Tank	Muzli Mohespur	550 0 0		
		Kakra Mandal, Kasi Mandal, Bhowdin Lutoo Sarabjit Mandal, and Musammat Mahida.	4 Tanks	Seralguth	2,357 0 0		
		Gopa Mandar	Tank	Gurha	300 0 0		
		Gopal Bader	Do.	Dholi	650 0 0		
		Satuk Patra	Do.	Budharwa	200 0 0		
		Batu Nath Misser and Jhoomuk Mandar.	2 Tanks	Ratanpur Hamnia	433 0 0		
		Pelut Manjhi	Tank	Radohaki	200 0 0		
		Ryram Mandar and Kasi Mandar	1 Tanks	Digha	1,074 0 0		
		Shree Charan Sahou, Tejoo Singh, Inderman Jha and Kulaki Sunri.	2 Tanks	Kanoul	2,038 0 0		
		Manjhi Mandar	Tank	Gopalpur Rapowli	215 0 0		
		Ganga Ram Mandal	Do.	Korail	400 0 0		
		Rucol Kavat and Bhoresi Mandal	1 Tanks	Dagnara	1,146 0 0		
		Tota Mandal	Tank	Balasma	250 0 0		
		Chutkar Mandal	Do.	Ramburhara	400 0 0		
		Bhikari Mandal	Do.	Tejmasara	700 0 0		
		Karmen Mandal, Gopal Bader and Berton Bader.	3 tanks	Malik San Patcha	1,085 0 0		
		Mahar Gope	Tank	Andowli	300 0 0		
		Brij Mandal	Do.	Bowmha Bamba	375 0 0		
		Gopal Mandal	Do.	Arasatkechi	402 0 0		
		Jhoomuk Mandal	Do.	Ghagripoolharo	475 0 0		
		Mango Choudhry	Do.	Khatpur Kawa Jhari	531 0 0		
		Touman Shah	Do.	Banksi Jai	200 0 0		
		Prasad Misser	Do.	Khatgungu	1,033 0 0		
		Hla Lal Bhakur	Do.	Laskhari	015 0 0		
		Janamthan Singh	Do.	Sunari	1,300 0 0		
		Birjo Singh	Do.	Berail	1,000 0 0		
		Hirai Singur	Do.	Majhiwa	250 0 0		
		Palut Mandar	Do.	Araba	300 0 0		
		Pran Shah	Do.	Madhubaram	200 0 0		
		Gopa Choudhury	Do.	Purna	200 0 0		
		Kanawa Mandar	Do.	Digha	400 0 0		
		Jagpuri Thakur	Do.	Lachungu	000 0 0		
		Lachman Mandar	Do.	Berachhi	400 0 0		
		Jay Ram Choudhury	Do.	Lachungu	700 0 0		
		Bai Mandar	Do.	Jhukshahi	500 0 0		
		Girdhari Mandar	Do.	Bela	000 0 0		
		Pershad Mandar	Do.	Bairo	400 0 0		
		Rang Mandar	Do.	Do.	400 0 0		
		Palut Amoo	Do.	Lachministola	350 0 0		
				Carried over	22,034 0 0	14,100 0 0	



DIVISION.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand of district.
					Rs. A. P.	Rs. A. P.	Rs.
				Brought forward	68,955 0 0	14,106 0 0	
		Bikari Koiri	Tank	Kalmogra	250 0 0		
		Bansa Mander	Do.	Nisani	200 0 0		
		Chatter Mander	Do.	Pargachia	400 0 0		
		Durini Keet	Do.	Dumra	500 0 0		
		Moonmohan Kunja	Do.	Kanungoa	300 0 0		
		Tepo Singh Rajput	Do.	Kanowari	700 0 0		
		Inderman Jha	Do.	Ditto	200 0 0		
		Sub Churni Shah	Do.	Ditto	200 0 0		
		Boolaki Sonari	Do.	Ditto	450 0 0		
		Kamaler Keet	Do.	Rowlee	200 0 0		
		Khanter Gowala	Do.	Mahua	200 0 0		
		Boman Koiri	Do.	Kahrie	200 0 0		
		Thehar Mander	Do.	Phoolia	200 0 0		
		Lowai Kallhap	Do.	Ditto	200 0 0		
		Perashdi Koiri	Do.	Bana	200 0 0		
		Moxon Mander	Do.	Jowrah	1,000 0 0		
		Bhai Lal Mander	Do.	Ditto	1,100 0 0		
		Hira Nath Mander	Do.	Ditto	200 0 0		
		Nathu Mander	Do.	Langhonia	200 0 0		
		Krishna Mander	Do.	Kajpore	200 0 0		
		Sub Raj Bhope	Do.	Katharwa	200 0 0		
		Jhant Mander	Do.	Dumra	200 0 0		
		Bhugwan Teli	Do.	Mukhenpore	200 0 0		
		Lahji Singh	Do.	Khara	200 0 0		
		Gordyal Mander	Do.	Bulla Bazaar	1,200 0 0		
		Lal Subor Teli	Do.	Ditto	200 0 0		
		Bahadur Kunja	Do.	Ratour	200 0 0		
		Boman Sahu	Do.	Kandaha	200 0 0		
		Hakari Bhalai	Do.	Tallur	200 0 0		
		Kilka Khan	Do.	Bangan	200 0 0		
		Gidhan Khan	Do.	Ditto	200 0 0		
		Kasi Chahi	Do.	Amarpore	200 0 0		
		Girdhari Sahu	Do.	Tallur	200 0 0		
		Daman Sahu	Do.	Mukharbo	200 0 0		
		Ramdhani Gope	Do.	Karwan	200 0 0		
		Ginour Gope	Do.	Ditto	200 0 0		
		Musamun Boodhis Brahmini	Do.	Pipra	200 0 0		
		Ram Nath Misser	Do.	Bullosatara	1,200 0 0		
		Godhi Mander Koiri	Do.	Ditahi	200 0 0		
		Burhi Sahu	Do.	Ditto	200 0 0		
		Ram Nath Misser	Do.	Bisheepore	200 0 0		
		Girdhari Keet	Do.	Jarowli	200 0 0		
		Kanoo Mander	Do.	Batkuondia	200 0 0		
		Rohun Mander	Do.	Lachimpore Chakla	200 0 0		
		Hochun Thakur	Do.	Adela	200 0 0		
		Bhumi Jha	Do.	Kothara	200 0 0		
		Jali Lal Marwarl	Masonry well	Barahat	200 0 0		
		Sadho Sahu	Do.	Farbatta	1,000 0 0		
		Musamun Moon Kurmi	Do.	Lakra	200 0 0		
		Toril Muli Marwarl	Dharamshala	Kaziwelchak	10,000 0 0		
		Maharajah Harbulla Narain Singh	Serai	Sonbura	1,000 0 0		
		Works costing less than Rs. 200 each			1,225 0 0		
						1,06,227 0 0	
		Sheik Karabari	Tank	Ghanooa	2,050 0 0		
		Hibi Jha	Do.	Dhagri	200 0 0		
		Asmud Chowdhari	Do.	Rukrowli	200 0 0		
		Kareb Bawna	Do.	Kharait	200 0 0		
		Musamun Parbati	Do.	Torai	200 0 0		
		Pat Lal Jha	Do.	Barhara	200 0 0		
		Musamun Mohana	Do.	Lokai	200 0 0		
		Ram Nath Misser	Do.	Hakari	200 0 0		
		Ditwar Boman	Do.	Bharaulangi	200 0 0		
		Bhai Lal Misser	Do.	Tira Kharia	200 0 0		
		Jadu Nath Jha	Do.	Ramwara	200 0 0		
		Kasi Rai	Do.	Kunpookur	200 0 0		
		Nand Ali	Do.	Chandbati	200 0 0		
		Sadhu Babu	Well	Ramkhina	200 0 0		
		Babu Lal Jha	Do.	Kudumchhat	200 0 0		
		Works costing less than Rs. 200 each			420 0 0		
						8,108 0 0	
		Ram Kumar Barua	Tank	Shikha	1,000 0 0		
		Mahadeb Mandul	Do.	Jawbankomban	200 0 0		
		Purna Chunder Sarkar	Do.	Kharba	200 0 0		
						1,200 0 0	
		Jugalkishore Halder	Bandh	Jankhara Jhiki	200 0 0		
		Ram Churni Singh	Do.	Dumra	200 0 0		
		Ram Churni Singh	Do.	Kunda	200 0 0		
		Raja Jha, of Baidy Singh	Do.	Jaintara	200 0 0		
		Ram Churni Singh	Tank	Dumra	200 0 0		
		Murao Rai	Do.	Chunepore	200 0 0		
		Narain Rai	Do.	Kharait	200 0 0		
		Ganoo Rai	Do.	Ditto	200 0 0		
		Ram Ram Chunder Gowda	Dharamshala	Deoghar	10,000 0 0		
		Works costing less than Rs. 200 each			2,400 0 0		
						23,125 0 0	
		Lalla Chand Dilekro, of Barabazar	Dharamshala	Chowlagan, Nayabazar,	2,000 0 0		
		to Calcutta.	Hospital	pergunnah Bakrabad.	2,000 0 0		
		Rajah Baidy Singh Pandit, of Chandai		Chandai Chouki in the town	200 0 0		
		Chouki in Cuttack.		of Cuttack.	200 0 0		
		Barja Nark, of Khaspara, pergunnah	Tank	Khaspara, pergunnah Ass-	200 0 0		
		Assamwar.		warer.	200 0 0		
		Kali Sahu, of Balipatna, pergunnah	Do.	Khatuni, killeb Madhupur	200 0 0		
		Gias.			200 0 0		
		Works costing less than Rs. 200 each			214 12 0		
						14,264 12 0	
		Rajah Baidy Singh Pandit, of Balasore,	Constructing a metalled	Nelkool, police-station Bal-	4,000 0 0		
		of Balasore.	road from Balasore to	asore.			
		Elrhadra Barangi, of Jagannath-	Tank	Sanmol Sing, police-station	1,200 0 0		
		pore, pergunnah Barabar.		Noroh.			
		Madan Mohun Das, of Panichator,	Do.	Rotera, police-station Soroh	700 0 0		
		pergunnah Banchoo.					
		Ram Nihuk, of Aida, pergunnah	Do.	Aida, police-station Soroh	200 0 0		
		Banshand.					
		Doorlabh Parbi, of Makulpore	Do.	Kalidaspore, police-station	575 0 0		
				Banshandpore.			
				Carried over	7,050 0 0	14,864 12 0	

Division.	District.	Name of individual by whom constructed.	Description of work.	Place where constructed.	Cost.	Total of districts.	Grand Total of division.
					Rs. A. P.	Rs. A. P.	Rs. A.
				Brought forward ...	7,035 0 0	14,304 12 0	.....
		Balbhadra Upadhye, of Ichapore, pergunnah Banarha.	Tank ... ..	Pakargur, police-station Soroh	400 0 0		
		Narai Nalik, of Eyecoonan, pergunnah Talsahang.	Do. ... ..	Eyecoonan, police-station	350 0 0		
		Narhari Paul, of Begunia, pergunnah Malkhandi.	Do. ... ..	Tharlapada, police-station	300 0 0		
		Gouri Sark of Padhanpura ...	Do. ... ..	Padhanpura, police-station	300 0 0		
		Babu Umesh Chandra Mandal, of Balasore.	Do. ... ..	Berasore, police-station	350 0 0		
		Sheik Panthikouri Hossain, of Khukrapal, pergunnah Khamut Karamhi.	Re-excavation of a tank	Khukrapal, police-station	200 0 0		
		Bhoo Panda, of Kamurda, pergunnah Kamurda.	A small tank ... ..	Kamurda, police-station	200 0 0		
		Baido Dutt, of Khanopore, pergunnah Kamurda.	Ditto ... ..	Kurhoopur, police-station	215 0 0		
		Gobind Parmanik, of Padima, pergunnah Sattulagan.	Ditto ... ..	Padima, police-station Sallapal.	270 0 0		
		Magnut Das, of Barhampore, pergunnah Barhampore.	Ditto ... ..	Sylora, police-station Soroh ...	300 0 0		
		Gobind Upadhye, of Asimla, pergunnah Barhampore.	Ditto ... ..	Asimla, police-station Soroh ...	300 0 0		
		Ananta Kar, of Bagda, pergunnah Bhatkandi.	Ditto ... ..	Bagda, police-station Soroh ...	300 0 0		
		Shikari Mahapatra, of Bontal ...	Ditto ... ..	Bontal, police-station Bhudruck.	300 0 0		
		Muli Musu, of Duraspore ...	Ditto ... ..	Duraspore, police-station Bhudruck.	300 0 0		
		Babu Umesh Chandra Mandal, of Balasore.	Ditto ... ..	Pura, police-station Banudabpur.	300 0 0		
		Works costing less than Rs. 200 each	.....	.....	2,580 0 0	13,350 0 0	
		Raghu Das ... ..	Tank ... ..	Sanspudar, police-station	2,700 0 0		
		Mohant Bagheemundan Ramanuj Das.	Do. ... ..	Jugumathbhalub, police-station Pooree.	200 0 0		
		Mohant Santopersad Das ...	Do. ... ..	Gobindpore, police-station Pooree.	200 0 0		
		Ranomulle Das ... ..	Do. ... ..	Ketkecpatna, police-station Pooree.	200 0 0		
		Rajah of Parikood ... ..	Do. ... ..	Rushanpersad, police-station Pooree.	200 0 0		
		Bhobnee Biswal ... ..	Do. ... ..	Durrah, police-station Piplee	300 0 0		
		Mitob Poturah ... ..	Wall ... ..	Khungree, police-station Khorda.	300 0 0		
		Works costing less than Rs. 200 each	.....	.....	187 8 0	4,967 8 0	33,202 4 0
		Works costing less than Rs. 200 each	.....	.....	404 0 0	404 0 0	
		Bathoralal, of Lower ... ..	Masonry wall ... ..	Lower, in police-station Chatterpur.	350 0 0		
		Notul Sahu, of Dalongunga ...	Do. ... ..	Serna in police-station Dalongunga.	350 0 0		
		Works costing less than Rs. 200 each	.....	.....	100 0 0	700 0 0	
		Sahab Khan, of Bagmudi, police-station Bagmudi.	Tank ... ..	Niabintipur ... ..	400 0 0		
		Khuchha Mahit, of Madaidi, pergunnah Khatra, police-station Topchanchi.	Do. ... ..	Madaidi, pergunnah Khatra ...	300 0 0		
		Works costing less than Rs. 200 each	.....	.....	280 0 0	1,080 0 0	
		Colonel W. L. Samuels ... ..	Deepening the Chybasu tank.	Chybasu ... ..	1,100 0 0		
		Rara Baboo, of Khas Seraikella.	Bandh ... ..	Nichituka, in Seraikella.	400 0 0		
		Baboo Ranjit Sing Deo, of Dugai.	Do. ... ..	Chopra, pergunnah Seraikella	500 0 0		
		Works costing less than Rs. 200 each	.....	.....	90 0 0	2,090 0 0	4,274 0 0

## SUMMARY.

Total of Burdwan	Division	...	...	...	...	Rs. A. P.
Ditto Presidency	do.	...	...	...	...	43,741 1 0
Ditto Rajshahye	do.	...	...	...	...	47,855 8 6
Ditto Dacca	do.	...	...	...	...	71,909 10 0
Ditto Chittagong	do.	...	...	...	...	31,428 0 0
Ditto Patna	do.	...	...	...	...	8,030 0 0
Ditto Bhagulpore	do.	...	...	...	...	2,55,824 8 8
Ditto Orissa	do.	...	...	...	...	1,52,869 0 0
Ditto Chota Nagpore	do.	...	...	...	...	83,202 4 0
		...	...	...	...	4,274 0 0

## GRAND TOTAL OF DIVISIONS

6,49,138 15 9

## Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 22nd November 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
<b>BENGAL.</b>			
<i>Western Districts.</i>			
Burdwan Div.	1 Burdwan Nov. 22, '90	Nil	Weather—bright and cold. Prospects of crops excellent. All agricultural operations in progress to the fullest extent. Price of common rice 16 seers per rupee on an average.
	2 Bankura „ 22, '90	Nil	Weather—seasonable. <i>Nasa dhan</i> is being reaped. <i>Amra dhan</i> is ripening. <i>Rabbi</i> sowings still continue. Sugarcane doing well. Yesterday (21st) at about 1 P.M. a large swarm of winged locusts alighted at the Sudder station and many miles round it, doing much injury to the young <i>rabbi</i> plants, but, as far as known, none to rice. Report as to extent of damage not yet received. Common rice selling at 20 seers per rupee both at Sudder and Biscupore.
	3 Birbhum „ 22, '90	Nil	Clear and fine weather. Prospects of crops continue to be excellent. Price of rice from 17 to 20 seers per rupee.
	4 Midnapur „ 22, '90	Nil	Weather—dry; winds northerly. Rice being cut in some places. In Ghatal rain would improve <i>rabbi</i> crops. Prices of common rice:— Sra. Sudder ... 16 Tumook ... 16 Ghatal ... 16 Cuntai ... 19 } per rupee.
	5 Hooghly „ 22, '90	Nil	Weather—cold, especially at night. Prospects of all crops good. Harvesting of rice commenced. Prices of common rice:— Sra. Sudder ... 13 Serampore ... 13 Jehanabad ... 16½ } per rupee.
Presidency Div.	Howrah „ 22, '90	Nil	Weather—seasonable. <i>Amra</i> crop doing well. Prospects good. Price of common rice 14 to 14½ seers per rupee.
	6 24-Pargahs Nov. 25, '90	Nil	Weather—seasonable. Prospects of <i>amra</i> crop excellent. Ploughing going on for winter crops. On the 18th there was a flight of locusts over the Buxarhat subdivisional head-quarters. The insects passed from north-west to south-east direction and did slight damage to <i>rabbi</i> crops. Prices stationary.
	7 Nuddea „ 22, '90	Nil	Weather—seasonable. Harvesting of <i>amra</i> and sowing of winter crops still going on. Prospects of crops good.
	8 Khosine „ 22, '90	Nil	Weather—seasonable. Prospects of <i>amra</i> favourable except in the flooded areas.
	9 Jessore „ 22, '90	Nil	Weather—seasonable. Harvesting of <i>amra</i> commenced and price of rice reduced in some places. Sowing of <i>rabbi</i> crops still going on. Agricultural loans are still being issued.
Rajshahi Div.	10 Moorshedabad „ 22, '90	Nil	Weather—getting cool. Harvesting of <i>kaimanti</i> rice commenced. <i>Rabbi</i> crops being sown. <i>Kalai</i> doing well. Prospects good.
	11 Dinagepur „ 22, '90	Nil	Weather—seasonable. Prospects of crops continue good. Price of rice stationary. No more damage by locusts reported.
	12 Rajshahi „ 22, '90	Nil	Weather—dry and cool. Harvesting of winter paddy commenced. Prospects good. Prospects of ganja improving. <i>Rabbi</i> crops being sown.
	13 Meunpar „ 22, '90	Nil	Cold weather has set in. Everything promises fairly. Winter rice ripening and will be a heavy crop. A good deal of jute has remained unsold owing to a great fall in market price.
	14 Bogra „ 22, '90	Nil	Weather—seasonable. Winter rice generally doing very well, and in a few places harvesting has begun. <i>Rabbi</i> crops thriving where sown, and other lands are being prepared for them. Common rice selling at 15½ seers per rupee.
	15 Pubna „ 22, '90	Nil	Weather—seasonable. Prospects of standing crops continue good. <i>Amra</i> is being reaped. Mustard and tobacco are being sown. Prices slightly lower.
	16 Darjeeling „ 22, '90	Nil	Weather—bright; mornings and evenings cold. Prospects of crops good. <i>Amra</i> is being harvested. Winter rice doing well in the hills.
	17 Jalpigore „ 22, '90	Nil	Weather—seasonable. Prospects of crops favourable. Price of rice stationary.



No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
<b>BENGAL—concluded.</b>			
<i>Eastern Districts.</i>			
<b>Dacca Div.</b>	18 Dacca Nov. 23, '90	Nil	Weather—seasonable. Cultivation for winter crops going on. Late rice thriving. Price of common rice 12 to 16 seers per rupee.
	19 Farreedpur „ 22, '90	Nil	Weather—seasonable. State of standing crops fair. <i>Amun</i> paddy being harvested. Cultivation and sowing of winter crops in progress. Common rice selling at 15, 14 and 17 seers per rupee at the Sudder, Goalnada, and Madaripur subdivisional head-quarters respectively. Flight of locusts continuing since yesterday (21st); direction west to east; extent of damage cannot at present be estimated.
	20 Backergunge „ 22, '90	Nil	Weather—seasonable. State and prospect of crops fair. Common rice selling at about 18 seers per rupee.
	21 Mymensingh „ 22, '90	Nil	Weather—seasonable. Prospects of <i>amun</i> favourable. <i>Rabbi</i> sowings still continue. Price of common rice 12½ seers per rupee.
<b>Chittagong Div.</b>	22 Chittagong „ 25, '90	Nil	Weather—seasonable. Harvesting of early winter rice commenced. Prospects of <i>amun</i> promising. Cultivation of vegetable crop continues. Prices unchanged.
	23 Noakholly „ 22, '90	Nil	Weather—seasonable. State of <i>amun</i> crop good. <i>Rabbi</i> crops progressing.
	24 Tipperah „ 22, '90	Nil	Weather—seasonable. Lands are being prepared for winter crops. <i>Amun</i> is being reaped. Prospects good. Prices stationary.
	25 Chittagong Hill Tracts „ 20, '90	Nil	Weather—seasonable; dense fogs in nights and mornings. Gathering of cotton continues. Harvesting of early plough-paddy going on. Lands are still being ploughed in some places for mustard. Common rice is being sold at 11 seers 6½ chittacks per rupee.
<b>BEHAR.</b>			
<b>Patna Div.</b>	26 Patna Nov. 22, '90	Nil	Weather—cool. Harvesting of paddy commenced in some places. Sowing of <i>rabbi</i> and poppy still continues. <i>Rabbi</i> crops already sown are growing well. <i>Rabbi</i> and cotton look flourishing. Prices of food-grains almost stationary.
	27 Gya „ 22, '90	Nil	Weather—cold and fair. Sowing of <i>rabbi</i> and poppy crops finished. Paddy harvest going on throughout the district. Prospects favourable. Prices of food-grains falling.
	28 Shahabad „ 22, '90	Nil	Weather—cool with passing clouds. All crops looking promising.
	29 Darbhanga „ 22, '90	Nil	Weather—getting cool. Harvesting of rice crop commenced in places. <i>Rabbi</i> crops look promising. Poppy sowing in progress. Price of common rice falling.
<b>Bhadrabad Div.</b>	30 Monroperpur „ 22, '90	Nil	Weather—seasonable. Prospects of all crops continue excellent. Weather very favourable for poppy cultivation.
	31 Saran „ 22, '90	Nil	Weather—bright and cool at night. <i>Rabbi</i> sowings nearly completed. Prospects excellent. Poppy sowings rapidly progressing.
	32 Champaran „ 22, '90	Nil	Weather—seasonable. Paddy beginning to ripen. <i>Rabbi</i> and poppy sowings progressing and are germinating freely owing to the soil having plenty of moisture.
	33 Monghyr „ 22, '90	Nil	Weather—seasonable. State and prospects of winter rice continue favourable. <i>Rabbi</i> sowings still going on; early sowings have germinated well.
	34 Bhagalpore „ 22, '90	Nil	Weather—rather warm for the season. <i>Rabbi</i> sowings drawing to a close. Prospects of all crops good.
	35 Purneah „ 22, '90	Nil	Weather—somewhat hot during the day; nights cool. In spite of partial damage by floods, a full <i>aghani</i> crop may be expected. <i>Rabbi</i> crops doing well and promises a good harvest.
	36 Maldah „ 22, '90	Nil	Weather—seasonable. Prospects of crops good. Common rice selling at from 13 to 18 seers per rupee.
	37 Sonthal Ferghe „ 22, '90	Nil	Weather—seasonable. Prospects of all crops good. Harvesting of early rice in progress, and a full outturn expected. Common rice selling at 22 seers per rupee.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
<b>ORISSA.</b>			
ORISSA DIVN.	38 Cuttack	...	Report not received.
	39 Poores	„ 20, '90	Nil
	40 Balasore	„ 22, '90	Nil
<b>CHOTA NAGPORE.</b>			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIVN.	41 Hazaribagh	Nov. 22, '90	Nil
	42 Lohardugga	„ 22, '90	Nil
	43 Singhbhum	„ 22, '90	Nil
	44 Manbhum	„ 22, '90	Nil

Published for general information.

CALCUTTA; REVENUE DEPT.,  
The 25th November, 1890.P. NOLAN,  
Secy. to the Govt. of Bengal.

PRICES-CURRENT (RETAIL) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE  
HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL  
DURING THE FORTNIGHT ENDING THE  
15th NOVEMBER 1890.



## PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLDA. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
BENGAL.																			
Western Districts.																			
1	Burdwan	14 0	14 0	13 4	...	...	...	12 12	12 6	12 0	16 2	16 9	16 13	...	...	...			
2	Bankoora	13 12	14 0	13 12	18 0	18 0	14 8	17 0	17 0	15 0	20 0	19 0	19 0	...	...	...			
3	Beerbhoom	17 4	17 4	15 0	...	...	...	13 8	13 8	12 0	16 8	16 8	15 0	...	...	...			
4	Midnapore	10 8	10 8	13 8	...	...	...	11 0	13 0	12 8	16 0	16 12	15 8	...	...	...			
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	12 0	...	...	...			
	Howrah	...	...	...	...	...	...	10 0	10 0	9 8	14 0	13 8	13 8	...	...	...			
Central Districts.																			
	Calcutta	13 8	13 6	13 4	17 10	17 15	16 13	8 10	8 12	8 2	13 2	13 1	12 12	15 0	...	16 10			
6	24-Pargunnahs	13 0	14 0	14 0	18 0	20 0	16 0	8 0	8 0	7 8	15 0	15 0	16 0	...	...	...			
7	Nuddas	15 10	15 4	14 14	17 12	16 0	16 0	11 6	11 6	10 8	15 4	13 10	19 6	...	...	...			
8	Khoolna	...	...	...	...	...	...	12 8	12 0	11 0	16 0	14 8	14 0	...	...	...			
9	Jessore	13 0	13 0	13 5	...	...	...	11 0	11 0	9 0	13 0	13 0	12 0	...	...	...			
10	Moorshedabad	16 0	16 0	16 0	...	...	...	10 0	10 0	10 8	16 0	16 0	15 0	...	...	...			
11	Dinagore	15 10	15 10	16 0	18 0	21 12	23 0	15 0	13 4	13 4	18 0	16 12	17 12	...	...	...			
12	Rajshahye	11 8	16 8	15 0	21 0	19 8	20 10	12 12	12 12	9 12	15 15	15 0	12 12	...	...	...			
13	Rangpore	13 5	13 5	13 8	...	...	...	9 6	9 6	9 6	13 5	13 5	12 4	...	...	...			
14	Bogra	15 0	15 0	13 8	...	...	...	12 0	12 0	12 0	15 12	14 4	14 4	...	...	...			
15	Pubna	13 12	13 0	13 14	...	...	...	7 5	7 5	7 3	15 8	14 4	15 0	...	...	...			
16	Darjeeling	8 0	8 0	10 0	10 0	9 0	9 0	5 0	5 0	5 0	13 0	12 0	12 0	...	...	...			
17	Julpigoree	13 0	13 11	13 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	14 0	...	...	...			
Eastern Districts.																			
18	Dacca	12 0	12 0	13 0	14 0	14 0	20 0	13 0	13 0	10 0	14 0	14 0	12 0	...	...	...			
19	Furzedpore	18 0	16 0	13 0	25 0	20 0	...	12 0	10 0	8 0	14 0	13 0	12 0	...	...	...			
20	Backergunge	...	...	...	...	...	...	12 4	11 12	10 4	13 4	13 4	15 0	...	...	...			
21	Mymensingh	11 4	12 0	10 0	...	...	...	10 0	10 0	9 0	12 12	13 0	10 0	...	...	...			

A In subdivisions retail prices of salt per rupee are:—Calcutta 10 seers, Cutwa 10 seers 5 chittacks, and Bankeergunge 10 seers.

B At Rampore Hant retail price of salt 9½ seers per rupee.

C In subdivisions retail prices of salt per rupee are:—Contal 8 seers, Tumlook 8 seers, and Ghatal 11 seers.

D In subdivisions retail prices of salt per rupee are:—Serampore 10½ seers and Johannahad 11 seers.

E In subdivisions retail prices of salt per rupee are:—Barisal 10 seers, Basirhat 10 seers, Diamond Harbour (at Magrahat) 10 seers, Barackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.

F In subdivisions retail prices of salt per rupee are:—Koochibee 10 seers, Moherpore 11 seers, Chooadanga 10 seers, and Ranaghat 10 seers.

G In subdivisions retail prices of salt per rupee are:—Sankhira 10 seers and Bagichat 8 seers.

H In subdivisions retail prices of salt per rupee are:—Jhoulida 9 seers, Magura 10 seers, Narail 9½ seers, and Bongongr 10 seers.

**SALES OF 80 TONS.**

КНИГА ДЪ КЪМЪРЪ.  
 (ПЪРВАТА ЧАСТЬ.)  
 МАХИТА ДЪ ПАРИ.  
 (ВЪВЕДЕНИЕ.)

Percent return.
Next preceding return.
Corresponding return of last year.
Percent return.
Next preceding return.
Corresponding return of last year.

[illegible]

0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6	-0.7	-0.8	-0.9	-1.0	-1.1	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-2.0	-2.1	-2.2	-2.3	-2.4	-2.5	-2.6	-2.7	-2.8	-2.9	-3.0	-3.1	-3.2	-3.3	-3.4	-3.5	-3.6	-3.7	-3.8	-3.9	-4.0	-4.1	-4.2	-4.3	-4.4	-4.5	-4.6	-4.7	-4.8	-4.9	-5.0	-5.1	-5.2	-5.3	-5.4	-5.5	-5.6	-5.7	-5.8	-5.9	-6.0	-6.1	-6.2	-6.3	-6.4	-6.5	-6.6	-6.7	-6.8	-6.9	-7.0	-7.1	-7.2	-7.3	-7.4	-7.5	-7.6	-7.7	-7.8	-7.9	-8.0	-8.1	-8.2	-8.3	-8.4	-8.5	-8.6	-8.7	-8.8	-8.9	-9.0	-9.1	-9.2	-9.3	-9.4	-9.5	-9.6	-9.7	-9.8	-9.9	-10.0	-10.1	-10.2	-10.3	-10.4	-10.5	-10.6	-10.7	-10.8	-10.9	-11.0	-11.1	-11.2	-11.3	-11.4	-11.5	-11.6	-11.7	-11.8	-11.9	-12.0	-12.1	-12.2	-12.3	-12.4	-12.5	-12.6	-12.7	-12.8	-12.9	-13.0	-13.1	-13.2	-13.3	-13.4	-13.5	-13.6	-13.7	-13.8	-13.9	-14.0	-14.1	-14.2	-14.3	-14.4	-14.5	-14.6	-14.7	-14.8	-14.9	-15.0	-15.1	-15.2	-15.3	-15.4	-15.5	-15.6	-15.7	-15.8	-15.9	-16.0	-16.1	-16.2	-16.3	-16.4	-16.5	-16.6	-16.7	-16.8	-16.9	-17.0	-17.1	-17.2	-17.3	-17.4	-17.5	-17.6	-17.7	-17.8	-17.9	-18.0	-18.1	-18.2	-18.3	-18.4	-18.5	-18.6	-18.7	-18.8	-18.9	-19.0	-19.1	-19.2	-19.3	-19.4	-19.5	-19.6	-19.7	-19.8	-19.9	-20.0	-20.1	-20.2	-20.3	-20.4	-20.5	-20.6	-20.7	-20.8	-20.9	-21.0	-21.1	-21.2	-21.3	-21.4	-21.5	-21.6	-21.7	-21.8	-21.9	-22.0	-22.1	-22.2	-22.3	-22.4	-22.5	-22.6	-22.7	-22.8	-22.9	-23.0	-23.1	-23.2	-23.3	-23.4	-23.5	-23.6	-23.7	-23.8	-23.9	-24.0	-24.1	-24.2	-24.3	-24.4	-24.5	-24.6	-24.7	-24.8	-24.9	-25.0	-25.1	-25.2	-25.3	-25.4	-25.5	-25.6	-25.7	-25.8	-25.9	-26.0	-26.1	-26.2	-26.3	-26.4	-26.5	-26.6	-26.7	-26.8	-26.9	-27.0	-27.1	-27.2	-27.3	-27.4	-27.5	-27.6	-27.7	-27.8	-27.9	-28.0	-28.1	-28.2	-28.3	-28.4	-28.5	-28.6	-28.7	-28.8	-28.9	-29.0	-29.1	-29.2	-29.3	-29.4	-29.5	-29.6	-29.7	-29.8	-29.9	-30.0	-30.1	-30.2	-30.3	-30.4	-30.5	-30.6	-30.7	-30.8	-30.9	-31.0	-31.1	-31.2	-31.3	-31.4	-31.5	-31.6	-31.7	-31.8	-31.9	-32.0	-32.1	-32.2	-32.3	-32.4	-32.5	-32.6	-32.7	-32.8	-32.9	-33.0	-33.1	-33.2	-33.3	-33.4	-33.5	-33.6	-33.7	-33.8	-33.9	-34.0	-34.1	-34.2	-34.3	-34.4	-34.5	-34.6	-34.7	-34.8	-34.9	-35.0	-35.1	-35.2	-35.3	-35.4	-35.5	-35.6	-35.7	-35.8	-35.9	-36.0	-36.1	-36.2	-36.3	-36.4	-36.5	-36.6	-36.7	-36.8	-36.9	-37.0	-37.1	-37.2	-37.3	-37.4	-37.5	-37.6	-37.7	-37.8	-37.9	-38.0	-38.1	-38.2	-38.3	-38.4	-38.5	-38.6	-38.7	-38.8	-38.9	-39.0	-39.1	-39.2	-39.3	-39.4	-39.5	-39.6	-39.7	-39.8	-39.9	-40.0	-40.1	-40.2	-40.3	-40.4	-40.5	-40.6	-40.7	-40.8	-40.9	-41.0	-41.1	-41.2	-41.3	-41.4	-41.5	-41.6	-41.7	-41.8	-41.9	-42.0	-42.1	-42.2	-42.3	-42.4	-42.5	-42.6	-42.7	-42.8	-42.9	-43.0	-43.1	-43.2	-43.3	-43.4	-43.5	-43.6	-43.7	-43.8	-43.9	-44.0	-44.1	-44.2	-44.3	-44.4	-44.5	-44.6	-44.7	-44.8	-44.9	-45.0	-45.1	-45.2	-45.3	-45.4	-45.5	-45.6	-45.7	-45.8	-45.9	-46.0	-46.1	-46.2	-46.3	-46.4	-46.5	-46.6	-46.7	-46.8	-46.9	-47.0	-47.1	-47.2	-47.3	-47.4	-47.5	-47.6	-47.7	-47.8	-47.9	-48.0	-48.1	-48.2	-48.3	-48.4	-48.5	-48.6	-48.7	-48.8	-48.9	-49.0	-49.1	-49.2	-49.3	-49.4	-49.5	-49.6	-49.7	-49.8	-49.9	-50.0	-50.1	-50.2	-50.3	-50.4	-50.5	-50.6	-50.7	-50.8	-50.9	-51.0	-51.1	-51.2	-51.3	-51.4	-51.5	-51.6	-51.7	-51.8	-51.9	-52.0	-52.1	-52.2	-52.3	-52.4	-52.5	-52.6	-52.7	-52.8	-52.9	-53.0	-53.1	-53.2	-53.3	-53.4	-53.5	-53.6	-53.7	-53.8	-53.9	-54.0	-54.1	-54.2	-54.3	-54.4	-54.5	-54.6	-54.7	-54.8	-54.9	-55.0	-55.1	-55.2	-55.3	-55.4	-55.5	-55.6	-55.7	-55.8	-55.9	-56.0	-56.1	-56.2	-56.3	-56.4	-56.5	-56.6	-56.7	-56.8	-56.9	-57.0	-57.1	-57.2	-57.3	-57.4	-57.5	-57.6	-57.7	-57.8	-57.9	-58.0	-58.1	-58.2	-58.3	-58.4	-58.5	-58.6	-58.7	-58.8	-58.9	-59.0	-59.1	-59.2	-59.3	-59.4	-59.5	-59.6	-59.7	-59.8	-59.9	-60.0	-60.1	-60.2	-60.3	-60.4	-60.5	-60.6	-60.7	-60.8	-60.9	-61.0	-61.1	-61.2	-61.3	-61.4	-61.5	-61.6	-61.7	-61.8	-61.9	-62.0	-62.1	-62.2	-62.3	-62.4	-62.5	-62.6	-62.7	-62.8	-62.9	-63.0	-63.1	-63.2	-63.3	-63.4	-63.5	-63.6	-63.7	-63.8	-63.9	-64.0	-64.1	-64.2	-64.3	-64.4	-64.5	-64.6	-64.7	-64.8	-64.9	-65.0	-65.1	-65.2	-65.3	-65.4	-65.5	-65.6	-65.7	-65.8	-65.9	-66.0	-66.1	-66.2	-66.3	-66.4	-66.5	-66.6	-66.7	-66.8	-66.9	-67.0	-67.1	-67.2	-67.3	-67.4	-67.5	-67.6	-67.7	-67.8	-67.9	-68.0	-68.1	-68.2	-68.3	-68.4	-68.5	-68.6	-68.7	-68.8	-68.9	-69.0	-69.1	-69.2	-69.3	-69.4	-69.5	-69.6	-69.7	-69.8	-69.9	-70.0	-70.1	-70.2	-70.3	-70.4	-70.5	-70.6	-70.7	-70.8	-70.9	-71.0	-71.1	-71.2	-71.3	-71.4	-71.5	-71.6	-71.7	-71.8	-71.9	-72.0	-72.1	-72.2	-72.3	-72.4	-72.5	-72.6	-72.7	-72.8	-72.9	-73.0	-73.1	-73.2	-73.3	-73.4	-73.5	-73.6	-73.7	-73.8	-73.9	-74.0	-74.1	-74.2	-74.3	-74.4	-74.5	-74.6	-74.7	-74.8	-74.9	-75.0	-75.1	-75.2	-75.3	-75.4	-75.5	-75.6	-75.7	-75.8	-75.9	-76.0	-76.1	-76.2	-76.3	-76.4	-76.5	-76.6	-76.7	-76.8	-76.9	-77.0	-77.1	-77.2	-77.3	-77.4	-77.5	-77.6	-77.7	-77.8	-77.9	-78.0	-78.1	-78.2	-78.3	-78.4	-78.5	-78.6	-78.7	-78.8	-78.9	-79.0	-79.1	-79.2	-79.3	-79.4	-79.5	-79.6	-79.7	-79.8	-79.9	-80.0	-80.1	-80.2	-80.3	-80.4	-80.5	-80.6	-80.7	-80.8	-80.9	-81.0	-81.1	-81.2	-81.3	-81.4	-81.5	-81.6	-81.7	-81.8	-81.9	-82.0	-82.1	-82.2	-82.3	-82.4	-82.5	-82.6	-82.7	-82.8	-82.9	-83.0	-83.1	-83.2	-83.3	-83.4	-83.5	-83.6	-83.7	-83.8	-83.9	-84.0	-84.1	-84.2	-84.3	-84.4	-84.5	-84.6	-84.7	-84.8	-84.9	-85.0	-85.1	-85.2	-85.3	-85.4	-85.5	-85.6	-85.7	-85.8	-85.9	-86.0	-86.1	-86.2	-86.3	-86.4	-86.5	-86.6	-86.7	-86.8	-86.9	-87.0	-87.1	-87.2	-87.3	-87.4	-87.5	-87.6	-87.7	-87.8	-87.9	-88.0	-88.1	-88.2	-88.3	-88.4	-88.5	-88.6	-88.7	-88.8	-88.9	-89.0	-89.1	-89.2	-89.3	-89.4	-89.5	-89.6	-89.7	-89.8	-89.9	-90.0	-90.1	-90.2	-90.3	-90.4	-90.5	-90.6	-90.7	-90.8	-90.9	-91.0	-91.1	-91.2	-91.3	-91.4	-91.5	-91.6	-91.7	-91.8	-91.9	-92.0	-92.1	-92.2	-92.3	-92.4	-92.5	-92.6	-92.7	-92.8	-92.9	-93.0	-93.1	-93.2	-93.3	-93.4	-93.5	-93.6	-93.7	-93.8	-93.9	-94.0	-94.1	-94.2	-94.3	-94.4	-94.5	-94.6	-94.7	-94.8	-94.9	-95.0	-95.1	-95.2	-95.3	-95.4	-95.5	-95.6	-95.7	-95.8	-95.9	-96.0	-96.1	-96.2	-96.3	-96.4	-96.5	-96.6	-96.7	-96.8	-96.9	-97.0	-97.1	-97.2	-97.3	-97.4	-97.5	-97.6	-97.7	-97.8	-97.9	-98.0	-98.1	-98.2	-98.3	-98.4	-98.5	-98.6	-98.7	-98.8	-98.9	-99.0	-99.1	-99.2	-99.3	-99.4	-99.5	-99.6	-99.7	-99.8	-99.9	-100.0
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[illegible]







## PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

		QUANTITIES PER RUPEE IN														
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)		
DISTRICTS.		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
Number.																
Eastern Districts—concluded.																
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
22	Chittagong ...	12 0	11 0	10 0	...	...	...	11 0	12 0	8 0	15 14	15 12	15 0	...	...	...
23	Noakholly ...	...	...	...	...	...	...	14 8	14 0	11 0	13 0	15 0	13 0	...	...	...
24	Tipperah ...	10 0	10 0	12 5	...	...	...	11 7	10 0	10 10	16 0	13 14	17 12	...	...	...
25	Chittagong Hill Tracts. Hill Tipperah*	...	...	...	...	...	...	10 5	10 5	9 8	11 6	11 6	10 0	...	...	...
26	BEHAR. Patna ...	17 2	Red. 16 12 White. 15 12	18 0	19 0	17 0	21 0	11 0	11 0	10 0	17 0	16 4	16 8	...	...	24 9
27	Gya ...	15 8	15 4	14 12	19 0	18 12	18 0	10 0	10 0	10 0	17 0	17 0	16 8	...	...	...
28	Bhababad ...	15 8	15 8	14 0	18 0	16 0	20 0	9 0	9 0	9 0	15 0	16 0	13 0	...	...	...
29	Durbhanga ...	14 0	13 4	16 0	17 9	16 8	14 13	12 0	13 0	14 4	16 8	16 8	20 9	...	...	...
30	Masuffpore ...	16 0	16 0	12 8	17 0	15 0	18 8	8 0	9 0	9 0	14 0	14 0	14 0	...	...	...
31	Saran ...	14 8	15 8	15 8	16 8	16 0	19 8	8 8	8 4	8 8	14 14	14 8	11 12	...	...	...
32	Champaran ...	16 0	16 0	12 0	21 0	19 0	12 0	9 0	9 0	8 0	17 0	16 0	13 0	...	...	...
33	Monghyr ...	15 12	16 12	18 14	17 13	16 12	18 14	11 0	11 0	11 9	14 11	15 3	13 10	...	...	...
34	Bhagalpore ...	16 7	16 6	17 10	18 15	20 3	18 15	10 1	10 11 New. 12 10	12 0	12 10	13 14 New. 15 12	16 6	...	...	...
35	Purneah ...	16 0	16 0	17 0	...	...	...	15 0	15 0	13 0	17 0	17 0	20 0	...	...	...
36	Maldah ...	17 0	18 0	14 0	...	...	...	11 0	11 0	12 0	15 8	16 0	14 0	...	...	...
37	Sonthal Pergas.	14 0	14 0	15 0	...	...	...	13 0	12 0	13 0	20 0	15 0	16 0	...	...	...
ORISSA.																
38	Cuttack ...	13 2	14 7	13 2	...	...	...	10 8	10 8	10 8	18 6	21 0	17 0	...	...	...
39	Pooree ...	11 7	14 7	13 2	...	...	...	14 7	14 7	13 2	21 0	21 0	17 1	...	...	...
40	Balasore ...	15 0	15 0	15 0	13 0	13 0	13 0	13 0	12 0	13 0	22 0	22 0	22 0	...	...	...
CHOTA NAGPORE.																
South-West Frontier Agency.																
41	Hasaribagh ...	14 0	14 0	18 0	16 0	17 0	15 0	10 0	10 0	10 0	19 0 (new) 21 0	16 0 20 0	17 0	...	...	...
42	Lohardugga ...	13 0	Red. 14 0	12 0	21 0	...	13 0	18 12 New. 16 0	13 8	13 0	18 0	18 0 Old. 16 0	15 8	...	...	...
43	Singbhoom ...	16 0	12 0	10 0	20 0	17 0	12 0	14 0	14 0	16 0	15 0	15 0	20 0	...	...	...
44	Manbhoom ...	13 5	13 6	12 0	23 0	23 0	...	13 0	13 0	14 0	23 0	20 0	14 8	...	...	...

\* Return not received.

S At Cox's Bazar retail price of salt 8 seers per rupee.

T At Foul Hazy retail price of salt 8½ seers per rupee.

U In subdivisions retail prices of salt per rupee are:—Buxar 10½ seers, Banmura 10½ seers, and Bhabuah 9½ seers.

V In subdivisions retail prices of salt per rupee are:—Medhabani 10 seers and Samastipore 11 seers.

W In subdivisions retail prices of salt per rupee are:—Hajipore 9½ seers and Sitamarhi 10 seers.

X At Bettiah retail price of salt 10 seers per rupee.

CALCUTTA,  
The 26th November, 1890.

MARCA ON ITAL.  
MILANO CORONA.

Present return.
Next preceding return.
Corresponding return of last year.
Present return.
Next preceding return.
Corresponding return of last year.

[illegible][illegible][illegible]

	1	2	3	4
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00
32	0.00	0.00	0.00	0.00
33	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00
36	0.00	0.00	0.00	0.00
37	0.00	0.00	0.00	0.00
38	0.00	0.00	0.00	0.00
39	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00
42	0.00	0.00	0.00	0.00
43	0.00	0.00	0.00	0.00
44	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00
51	0.00	0.00	0.00	0.00
52	0.00	0.00	0.00	0.00
53	0.00	0.00	0.00	0.00
54	0.00	0.00	0.00	0.00
55	0.00	0.00	0.00	0.00
56	0.00	0.00	0.00	0.00
57	0.00	0.00	0.00	0.00
58	0.00	0.00	0.00	0.00
59	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00
61	0.00	0.00	0.00	0.00
62	0.00	0.00	0.00	0.00
63	0.00	0.00	0.00	0.00
64	0.00	0.00	0.00	0.00
65	0.00	0.00	0.00	0.00
66	0.00	0.00	0.00	0.00
67	0.00	0.00	0.00	0.00
68	0.00	0.00	0.00	0.00
69	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00
71	0.00	0.00	0.00	0.00
72	0.00	0.00	0.00	0.00
73	0.00	0.00	0.00	0.00
74	0.00	0.00	0.00	0.00

Days after start of growing season (X)	Days until start of growing season (Y)
0	0
10	10
20	20
30	30
40	40
50	50
60	60
70	70
80	80
90	90
100	100



## Station Bazars of the Districts of Bengal on the 15th November, 1890—(concluded).

												WHOLESALE PRICES PER MAUND OF 400 SEERS.			DISTRICTS.
INDIAN CORN OR MAIZE. (Zea Mays.)			ARHAR OR TUR. CAJIAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.			
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
...	...	...	...	...	...	110 0	110 0	100 0	10 0	10 0	9 0	3 14 0	3 14 0	4 0 0	Chittagong.
...	...	...	8 0	8 0	8 0	...	...	...	9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakhully.
...	...	...	11 7	10	8 0	...	...	...	10 0	10 0	8 14	4 0 0	4 0 0	4 3 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts Hill Tipperah.
Eastern Districts—concluded.															
BEHAR.															
19 0	21 0	23 0	...	19 0	22 0	130 0	120 0	130 0	9 8	10 0	9 8	3 10 0	3 10 0	3 14 0	Patna.
...	...	...	...	17 0	16 8	19 0	160 0	160 0	300 0	10 0	10 0	4 2 0	4 2 0	4 2 0	Gya.
...	...	...	...	17 0	17 0	20 0	120 0	120 0	140 0	10 0	10 0	3 15 0	3 15 0	3 15 0	Shahabad.
19 12	20 0	26 0	17 0	17 0	20 4	160 0	160 0	200 0	11 0	11 0	11 4	3 8 0	3 8 0	3 8 0	Darbhanga.
18 0	18 0	22 0	18 0	20 0	17 8	160 0	160 0	160 0	10 0	10 0	10 0	4 0 0	3 4 0	3 12 0	Muzafferpore.
18 0	17 2	22 0	16 4	17 12	21 8	180 0	180 0	160 0	10 4	10 4	9 8	3 14 0	3 13 0	4 2 0	Saran.
20 0	21 0	22 8	17 0	17 8	17 8	160 0	160 0	160 0	10 0	10 0	10 0	3 13 0	3 11 0	4 1 0	Chumpran.
21 0	21 0	23 1	17 13	16 12	18 14	168 0	163 0	147 0	9 15	9 15	9 8	3 13 0	3 13 0	4 0 0	Monghyr.
21 7	21 7	24 0	17 11	18 10	17 10	161 8	161 8	164 0	10 8	10 0	10 1	3 11 0	3 14 0	4 0 0	Bhagulpore.
...	...	...	14 0	15 0	16 0	130 0	130 0	200 0	9 0	9 0	9 0	4 7 0	4 7 0	4 7 0	Furness.
...	...	...	...	...	...	120 0	120 0	120 0	9 0	9 0	8 0	4 0 0	4 0 0	5 0 0	Maldah.
21 0	21 0	27 0	20 0	21 0	17 0	200 0	200 0	200 0	9 0	9 0	9 4	3 14 0	3 14 0	4 0 0	Sontal Pargha.
ORISSA.															
...	...	...	18 6	19 11	15 6	80 0	80 0	80 0	11 0	11 0	11 0	3 12 0	3 12 0	3 12 0	Outback.
...	...	...	17 12	17 12	15 12	80 0	80 0	80 0	9 13	9 13	11 13	3 12 0	3 12 0	3 6 0	Pooree.
...	...	...	...	...	...	160 0	160 0	160 0	10 0	10 0	9 0	3 14 0	3 14 0	4 2 0	Balasore.
CHOTA NAGPORE.															
South-West Frontier Agency.															
25 0	20 0	30 0	20 0	20 0	16 0	240 0	240 0	240 0	8 0	8 0	8 0	4 2 0	4 3 0	4 8 0	Bazaribagh.
28 8	34 0	40 0	24 8	22 0	15 8	120 0	120 0	140 0	9 0	9 0	8 8	4 2 0	4 2 0	4 9 0	Lohardugga.
20 0	20 0	32 0	18 0	11 0	12 0	240 0	240 0	200 0	9 0	9 0	7 0	4 6 0	4 6 0	5 8 0	Singbhoon.
26 0	...	32 0	18 0	18 0	15 0	200 0	200 0	200 0	9 14	9 14	9 0	3 14 0	3 12 0	4 2 0	Manbhoon.

Y In subdivisions retail prices of salt per rupee are :—Begusarai 2½ seers and Jamui 9 seers.

Z In Arrah subdivision (at Ranigunge) retail price of salt 10 seers per rupee.

Z1 At Bhudiruck retail price of salt 9 seers per rupee.

Z2 At Daitongunge retail price of salt 8 seers 2 chittacks per rupee.

Z3 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,  
Secy. to the Govt. of Bengal.





JOHAN ON CHOLTI.  
(Norgenske Fuglere.)

BAJRA ON CEMBU.  
(Perminotus typhos-  
drom.)

第五卷

OF 10 SECTIONS

[illegible]



## Meteorological Report of the Province of Bengal.

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.													
DISTRICT.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.									
		Mean barometric height, S.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Unit.	Mean maximum temperature.	Mean minimum temperature.	Mean daily temperature.	Variation from normal mean of week.		
ORISSA.	Pooree	Pooree	30.067	30.040	—	N	113	83.7	15, 17 Nov.	83.8	19th Nov.	81.6	80.2	74.4	—	
	Pooree	Falco Point	30.069	30.081	+0.012	NNW	110	83.4	16th	83.0	19th	81.4	80.3	72.7	—1.6	
	Cuttack	Cuttack	30.014	30.009	+0.005	Calm	10	86.4	16th	85.9	16, 19	84.4	81.8	73.1	—1.4	
	Balasore	Balasore	30.030	30.140	+0.110	NNW	7	84.4	16th	84.5	17, 18	83.0	80.7	70.0	—0.6	
SOUTH-WEST BENGAL.	South-West Midnapore	Rangpur Island	30.055	30.082	+0.027	NNE	171	81.8	16th	83.4	10, 17	79.7	84.8	73.0	+0.3	
	Midnapore	Midnapore	30.054	30.091	+0.037	N	80	80.3	16th	84.9	10, 17	83.7	80.5	71.2	0	
	14-Perennials	Calcutta	30.069	30.080	+0.011	Calm	21	81.0	16th	87.8	16th	79.8	80.0	73.0	—2.3	
	Howrah	Howrah	30.068	30.067	+0.001	Calm	23	84.0	16th	87.8	16th	82.8	81.3	71.3	—0.6	
	Burdwan	Burdwan	30.062	30.082	+0.020	W	42	85.1	16th	83.3	16, 17	82.0	87.7	70.2	—3.4	
	Bankee	Bankee	30.067	30.119	+0.052	NW	25	83.3	16th	86.8	16th	81.0	87.0	70.0	—1.8	
	Barhampur	Barhampur	30.010	30.046	+0.036	North-West	20	83.1	16th	83.7	16th	80.7	82.8	71.0	—0.4	
	Wardha	Wardha	30.027	30.077	+0.050	NNW	21	84.8	16th	84.1	16th	83.1	83.0	70.0	—1.7	
	Jeonpur	Jeonpur	30.040	30.076	+0.036	Calm	7	83.7	16th	80.0	16th	85.4	82.1	72.3	—2.1	
	Chittagong	Chittagong	30.072	30.045	+0.027	W	38	84.7	16th	82.9	16th	83.5	7	7	7	
EAST BENGAL.	Chittagong Hill Tracts	Dumagati	30.043	30.056	+0.013	Calm	27	83.3	16th Nov.	81.8	16th	81.2	83.2	72.2	—0.1	
	Backsurgut	Backsurgut	30.026	30.071	+0.045	N	53	83.0	15, 20, 21 Nov.	81.0	16, 17, 19 & 20 Nov.	82.0	81.0	73.1	—0.9	
	Nowkhilly	Nowkhilly	30.039	30.080	+0.041	Calm	16	86.8	16th	83.0	16, 21	79.8	82.8	71.0	—0.5	
	Furzedpore	Furzedpore	30.031	30.054	+0.023	E	41	84.1	15, 19, 20 Nov.	81.8	21st	83.0	84.0	73.0	+0.3	
	Dacca	Dacca	30.025	30.062	+0.037	Variable	12	84.4	16th	83.7	20th	83.1	81.2	72.4	—0.4	
	Comilla	Comilla	30.012	30.072	+0.060	Easterly	31	81.0	16th	80.8	21st	80.0	82.0	71.5	—1.4	
	Mymensingh	Mymensingh	30.018	30.051	+0.033	N	20	83.1	16th	80.1	21st	80.0	81.1	70.0	—0.8	
	Bohara	Bohara	30.018	30.066	+0.048	N & NE	10	82.1	16th	80.8	16th	81.2	80.8	71.0	0	
	Malabar	Malabar	30.004	30.077	+0.073	NNE	40	81.0	16th	83.0	16th	80.2	82.3	71.3	+2.5	
	Malabar	Malabar	30.004	30.092	+0.088	NW	81	83.7	16th	80.5	16th	82.2	80.1	71.2	—	
NORTH BENGAL.	Dinapore	Dinapore	30.036	30.062	+0.026	Variable	7	83.1	16, 17	80.2	16, 16	81.6	80.0	71.2	+0.9	
	Rangpur	Rangpur	?	?	?	NE	7	81.0	16th	80.3	16th	81.3	81.2	71.3	+1.4	
	Jalpaiguri	Jalpaiguri	30.070	30.090	+0.020	?	7	81.5	16th	80.1	15, 20, 21 Nov.	80.0	80.7	70.7	+1.0	
	Darjeeling Hill Tracts	Darjeeling	30.076	—	—	North-Easterly	82	86.8	16th	87.0	21st	83.8	81.0	72.0	—0.3	
	Purneah	Purneah	30.060	30.098	+0.038	Westerly & Calm	52	81.0	20th	80.8	16th	79.0	83.3	69.1	—0.4	
	Moanerpore	Moanerpore	30.044	30.085	+0.041	Calm	30	81.3	16th	80.8	17th	80.1	80.1	70.0	—	
	Darbhanga	Darbhanga	30.034	30.110	+0.076	WSW	23	81.9	16th	80.0	16th	80.0	87.7	69.3	—1.3	
	Chhapra	Chhapra	30.046	30.108	+0.062	Variable	47	81.2	15 & 16	81.0	16th	80.0	84.0	67.0	—0.3	
	Arrah	Arrah	30.053	30.087	+0.034	Calm	18	82.3	16th	87.4	17th	80.8	80.3	69.3	+0.7	
	Dehree	Dehree	30.074	30.110	+0.036	SW	40	80.3	16th	81.5	17th	81.7	80.0	67.7	—1.2	
NORTH BENGAL.	Shahabad	Shahabad	?	?	?	Variable	54	82.4	15, 16	82.4	16th	80.3	85.3	67.0	—1.4	
	Arrah	Arrah	30.069	30.090	+0.021	Variable	8	83.1	16th	81.1	17, 18	81.4	82.3	68.5	—1.7	
	Gya	Gya	30.074	30.117	+0.043	S	100	85.9	16th	82.8	16th	81.8	83.7	67.8	—2.9	
	Patna	Patna	30.074	30.107	+0.033	Westerly & Calm	34	81.8	16th	80.8	16th	79.0	80.0	67.0	—1.8	
	South Champaran	Champaran	30.076	30.080	+0.004	Calm	3	80.8	16th	84.5	16th	79.0	84.0	68.4	—0.5	
	South Champaran	Champaran	30.076	30.080	+0.004	Calm	32	81.1	16th	83.8	16th	80.6	80.6	68.0	—0.9	
	Hasaribagh	Hasaribagh	30.031	30.120	+0.089	Westerly & Calm	118	79.4	21st	82.0	17th	75.1	84.0	66.1	—0.9	
	Lohardigha	Lohardigha	30.005	30.104	+0.099	Calm	70	79.3	16th	80.8	17th	77.7	81.2	64.3	—0.6	
	Manikpur	Manikpur	30.035	30.110	+0.075	WSW	21	80.4	16th	81.0	16th	83.4	80.0	69.3	—0.7	
	Chhapra	Chhapra	30.035	30.110	+0.075	WSW	21	80.4	16th	81.0	16th	83.4	80.0	69.3	—0.7	

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the last ten years. The humidity of the atmosphere is expressed as percentage, saturated air being represented by 100. A clear sky is denoted by c and an overcast sky by lo. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the ten years in the district ending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

The week ending Friday, the 21st of November 1890.

Average cloud amount at 8 A.M. for week.		Rainfall of week at observing station.	DISTRICT OBSERVATIONS.										Representative station.	Division.	METEOROLOGICAL DIVISION.
			Of week.	RAINFALL.											
				Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.				
				Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
0	Nil	Nil	0.44	1.83	2.01	-0.18	65.77	54.34	+11.43	0.0	0.3	Poorne Gopalpore	Poorne	Orissa.	
0.1	Nil	Nil	0.25	1.97	0.94	+1.03	63.91	51.74	+12.17	0.0	0.3	Paleo Point	Outback	Orissa.	
0	Nil	Nil	0.11	0.87	0.74	+0.11	61.26	58.59	+2.67	0.0	0.3	Wilescote	Wilescote	Orissa.	
0.3	Nil	Nil	0.01	0.84	0.07	+0.07	66.29	61.37	+4.92	0.0	0.1	Sanctor Island	South West Midnapore	Orissa.	
0	Nil	Nil	Nil	Nil	0.17	-0.17	50.00	50.78	-0.78	0.0	0.0	Midnapore	Midnapore	Orissa.	
0	Nil	Nil	Nil	0.07	0.27	-0.20	55.10	59.63	-4.53	0.0	0.0	Calcutta	St. Petersburg	Orissa.	
0	Nil	Nil	Nil	0.25	0.30	-0.05	61.61	46.12	+15.49	0.0	0.0	Bardwan	Bardwan	Orissa.	
0.3	Nil	Nil	0.10	0.01	0.43	-0.41	53.02	51.80	+1.22	0.0	0.1	Bankura	Bankura	Orissa.	
0.0	Nil	Nil	Nil	0.26	0.19	+0.07	63.03	51.29	+11.74	0.0	0.0	Bansaganj	West Bardwan	Orissa.	
1.0	Nil	Nil	Nil	0.33	0.22	+0.11	60.25	49.84	+10.41	0.0	0.0	Bachampore	Moorsheadabad	Orissa.	
1.4	Nil	Nil	Nil	0.04	0.39	-0.35	55.03	45.60	+9.43	0.0	0.0	Krishnachar	Norden	Orissa.	
0.0	Nil	Nil	Nil	0.06	0.30	-0.24	63.54	52.02	+11.52	0.0	0.0	Jessore	Jessore	Orissa.	
1.1	Nil	Nil	0.06	1.37	1.65	-0.28	119.03	117.93	+1.10	0.0	0.1	Chittagong	Chittagong	Orissa.	
0	Nil	Nil	0.09	0.42	1.00	-0.58	73.33	79.27	-5.94	0.0	0.1	Dumturi	Chittagong Hill Tracts	Orissa.	
0	Nil	Nil	0.08	Nil	1.21	-1.21	68.16	73.58	-5.42	0.0	0.1	Barrisal	Backergunge	Orissa.	
0	Nil	Nil	0.08	Nil	2.00	-2.00	57.89	105.18	-47.29	0.0	0.1	Nonkholly	Nonkholly	Orissa.	
0	Nil	Nil	Nil	Nil	0.40	-0.40	63.43	54.74	+8.69	0.0	0.0	Farradpore	Farradpore	Orissa.	
0.1	Nil	Nil	0.13	Nil	0.83	-0.83	58.19	57.70	+0.49	0.0	0.1	Dacca	Dacca	Orissa.	
0.7	Nil	Nil	0.02	Nil	0.68	-0.68	60.11	57.53	+2.58	0.0	0.1	Comillah	Tipperah	Orissa.	
1.1	Nil	Nil	0.07	0.17	0.23	-0.06	73.83	68.33	+5.50	0.0	0.1	Mymensingh	Mymensingh	Orissa.	
0	Nil	Nil	0.41	0.31	+0.10	73.83	56.87	+16.96	0.0	0.0	Bogra	Bogra	Orissa.		
0.1	Nil	Nil	0.57	0.23	+0.34	54.03	52.78	+1.25	0.0	0.0	Saragunge	Pubna	Orissa.		
0.2	Nil	Nil	0.06	0.06	0.19	-0.13	76.88	52.61	+24.27	0.0	0.1	Rampore Benaulah	Rajshahy	Orissa.	
0	Nil	Nil	0.02	0.19	-0.17	62.14	53.58	+8.56	0.0	0.0	Maldah	Maldah	Orissa.		
0	Nil	Nil	0.01	Nil	0.07	-0.07	5.74	56.22	-50.48	0.0	0.1	Dinapore	Dinapore	Orissa.	
0.6	Nil	Nil	Nil	Nil	0.08	-0.08	105.41	75.17	+30.24	0.0	0.0	Rangpore	Rangpore	Orissa.	
0	Nil	Nil	0.02	Nil	0.04	-0.04	154.51	109.57	+44.94	0.0	0.1	Jalpigoree	Jalpigoree	Orissa.	
3.4	Nil	0.05	0.15	0.08	0.37	-0.29	163.03	118.54	+44.49	0.3	0.1	Darjeeling	Darjeeling Hill Tracts	Orissa.	
0.4	Nil	Nil	Nil	Nil	0.03	-0.03	40.57	55.02	-14.45	0.0	0.0	Furness	Furness	Orissa.	
0	Nil	Nil	0.02	Nil	0.08	-0.06	52.57	42.78	+9.79	0.0	0.1	Mosafarpore	Mosafarpore	Orissa.	
0	Nil	Nil	0.01	Nil	0.03	-0.03	57.83	43.46	+14.37	0.0	0.1	Darbhanga	Darbhanga	Orissa.	
0	Nil	Nil	0.01	Nil	0.01	-0.01	68.47	45.00	+23.47	0.0	0.1	Motihar	Champaran	Orissa.	
0	Nil	Nil	0.03	Nil	0.09	-0.06	53.03	41.70	+11.33	0.0	0.0	Onopra	Saran	Orissa.	
0	Nil	Nil	0.05	Nil	0.19	-0.14	49.59	30.21	+19.38	0.0	0.1	Danore	Shahabad	Orissa.	
0.3	Nil	Nil	0.05	Nil	0.14	-0.09	56.03	40.71	+15.32	0.0	0.0	Bakel	Gya	Orissa.	
0	Nil	Nil	0.01	Nil	0.11	-0.11	68.10	40.52	+27.58	0.0	0.1	Bankipore	Patna	Orissa.	
0	Nil	Nil	Nil	Nil	0.19	-0.19	52.23	42.46	+9.77	0.0	0.0	Shahulpore	South Shahulpore	Orissa.	
0	Nil	Nil	0.03	0.13	+0.10	63.03	50.23	+12.80	0.0	0.0	Boamra	Boamra	Orissa.		
0	Nil	Nil	0.05	0.01	0.33	-0.28	49.45	49.00	+0.45	0.0	0.1	Basaribagh	Basaribagh	Orissa.	
0	Nil	Nil	0.03	Nil	0.37	-0.37	47.01	47.22	-0.21	0.0	0.1	Barahi	Lahardurga	Orissa.	
0	Nil	Nil	0.02	Nil	0.17	-0.17	41.53	40.21	+1.32	0.0	0.1	Barahi	Lahardurga	Orissa.	
0	Nil	Nil	Nil	Nil	0.23	-0.23	31.74	50.47	-18.73	0.0	0.0	Jaybhara	Singbhoon	Orissa.	

The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.

The average cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means are the average of the rainfall at the stations in the district, and the actual rainfall at the stations.



## Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of November 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall since 1st of month.	Total rain-fall since 1st May 1890.	Average rain-fall since 1st May.
			Saturday, 15th November.	Sunday, 16th November.	Monday, 17th November.	Tuesday, 18th November.	Wednesday, 19th November.	Thursday, 20th November.	Friday, 21st November.	Number of rainy days.	of Rainfall week.				
North-West Bengal.	Ponra	Ponra	...	...	...	...	...	...	...	NI	NI	2.28	1.78	60.97	...
		Khurdah	...	...	...	...	...	...	...	NI	NI	0.23	1.27	45.16	...
		Banpur	...	...	...	...	...	...	...	NI	NI	1.16	2.85	51.83	...
		Palma Point	...	...	...	...	...	...	...	NI	NI	3.00	2.11	44.19	...
		Gur	...	...	...	...	...	...	...	NI	NI	2.92	?	65.95	...
		Satpara	...	...	...	...	...	...	...	NI	NI	4.34	?	45.07	...
		Pipti	...	...	...	...	...	...	...	NI	NI	0.29	?	75.20	...
	Gulark	Jagatsingapore	...	...	...	...	...	...	...	NI	NI	1.69	0.90	63.67	...
		Barki	...	...	...	...	...	...	...	NI	NI	5.25	1.62	85.00	...
		Cuttack	...	...	...	...	...	...	...	NI	NI	1.94	0.87	62.14	...
		Kondrapara	...	...	...	...	...	...	...	NI	NI	0.20	0.77	57.15	...
		Jessore	...	...	...	...	...	...	...	NI	NI	0.45	0.55	55.15	...
		Dharmasala	...	...	...	...	...	...	...	NI	NI	0.10	?	58.18	...
		Valipore	...	...	...	...	...	...	...	NI	NI	0.70	?	58.18	...
	Balsore	Chandhall	...	...	...	...	...	...	...	NI	NI	0.41	1.80	52.06	...
		Bhuddrak	...	...	...	...	...	...	...	NI	NI	0.09	0.83	57.50	...
		Surah	...	...	...	...	...	...	...	NI	NI	0.10	0.81	60.61	...
		Balsore	...	...	...	...	...	...	...	NI	NI	2.25	0.74	61.14	...
		Jellapore	...	...	...	...	...	...	...	NI	NI	1.21	0.25	65.23	...
		Rajpore	...	...	...	...	...	...	...	NI	NI	0.61	0.86	63.21	...
	Midnapore	Gental	...	...	...	...	...	...	...	NI	NI	0.44	0.60	67.73	...
		Sankar Island	...	...	...	...	...	...	...	NI	NI	1.46	0.80	60.55	...
		Tumuk	...	...	...	...	...	...	...	NI	NI	0.27	0.27	57.94	...
		Midnapore	...	...	...	...	...	...	...	NI	NI	NI	0.21	67.67	...
		Ghatal	...	...	...	...	...	...	...	NI	NI	0.46	0.46	44.71	...
		Kakrahaty	...	...	...	...	...	...	...	NI	NI	NI	?	50.28	...
	24-Pargannas	Diamond Har.	...	...	...	...	...	...	...	NI	NI	0.94	0.50	66.13	...
		Chowring Town	...	...	...	...	...	...	...	NI	NI	NI	?	66.09	...
		Alipore Jail	...	...	...	...	...	...	...	NI	NI	0.05	0.27	61.90	...
		Barrackpore	...	...	...	...	...	...	...	NI	NI	0.44	0.44	60.70	...
		Dum-Dum	...	...	...	...	...	...	...	NI	NI	0.19	0.19	56.54	...
		Baranet	...	...	...	...	...	...	...	NI	NI	0.26	0.26	56.44	...
	Howrah	Howrah	...	...	...	...	...	...	...	NI	NI	NI	0.80	58.07	...
		Maheswara	...	...	...	...	...	...	...	NI	NI	NI	0.27	51.34	...
		(Gulabaria)	...	...	...	...	...	...	...	NI	NI	0.32	0.32	59.07	...
		Saranipore	...	...	...	...	...	...	...	NI	NI	0.02	0.11	51.30	...
		Haughly	...	...	...	...	...	...	...	NI	NI	NI	0.19	51.45	...
		Jaladabad	...	...	...	...	...	...	...	NI	NI	NI	0.21	51.67	...
	Bardwan	Culna	...	...	...	...	...	...	...	NI	NI	0.20	0.34	54.91	...
		Bardwan	...	...	...	...	...	...	...	NI	NI	0.50	0.28	60.55	...
		Cutwa	...	...	...	...	...	...	...	NI	NI	NI	0.28	64.30	...
		Hanagunge	...	...	...	...	...	...	...	NI	NI	0.10	0.13	60.04	...
		Manik	...	...	...	...	...	...	...	NI	NI	0.41	?	60.21	...
		Bankura	...	...	...	...	...	...	...	NI	NI	NI	?	60.21	...
	Bankura	Bankura	...	...	...	...	...	...	...	NI	NI	NI	0.17	57.76	...
		Hoshangpur	...	...	...	...	...	...	...	NI	NI	NI	0.32	58.95	...
		Malhara	...	...	...	...	...	...	...	NI	NI	0.06	0.36	59.78	...
		Khatra	...	...	...	...	...	...	...	NI	NI	NI	0.50	40.06	...
		Indur	...	...	...	...	...	...	...	NI	NI	NI	?	50.02	...
		Khatapara	...	...	...	...	...	...	...	NI	NI	NI	?	63.04	...
	Hazaribagh	Anda	...	...	...	...	...	...	...	NI	NI	NI	?	60.11	...
		Chandrapur	...	...	...	...	...	...	...	NI	NI	NI	?	63.78	...
		Khatapara	...	...	...	...	...	...	...	NI	NI	NI	?	63.20	...
		Wanmukhi	...	...	...	...	...	...	...	NI	NI	NI	?	63.78	...
		...	...	...	...	...	...	...	...	NI	NI	NI	?	63.78	...
		...	...	...	...	...	...	...	...	NI	NI	NI	?	63.78	...
	Hazaribagh	Bh. Nary	...	...	...	...	...	...	...	NI	NI	0.33	0.12	65.23	...
		Holampore	...	...	...	...	...	...	...	NI	NI	0.76	0.15	60.52	...
		Kampore Hm	...	...	...	...	...	...	...	NI	NI	0.20	0.10	72.66	...
		Holpore	...	...	...	...	...	...	...	NI	NI	1.09	?	67.48	...
		Mararai	...	...	...	...	...	...	...	NI	NI	NI	?	60.46	...
		...	...	...	...	...	...	...	...	NI	NI	NI	?	60.46	...
	Nuddea	Ranaghat	...	...	...	...	...	...	...	NI	NI	NI	0.38	61.40	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	0.30	0.38	61.40	...
		Chandraghat	...	...	...	...	...	...	...	NI	NI	NI	0.45	47.08	...
		Meherpore	...	...	...	...	...	...	...	NI	NI	NI	0.15	58.80	...
		Kochia	...	...	...	...	...	...	...	NI	NI	NI	0.22	62.00	...
		...	...	...	...	...	...	...	...	NI	NI	NI	?	62.00	...
	Khataghat	Balkhira	...	...	...	...	...	...	...	NI	NI	0.46	0.28	57.61	...
		Balkhira	...	...	...	...	...	...	...	NI	NI	NI	0.47	62.51	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	0.38	61.84	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	0.38	?	70.82	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	62.75	...
		...	...	...	...	...	...	...	...	NI	NI	NI	?	62.75	...
	Jessore	Narail	...	...	...	...	...	...	...	NI	NI	NI	0.27	51.45	...
		Jessore	...	...	...	...	...	...	...	NI	NI	NI	0.34	60.40	...
		Jessore	...	...	...	...	...	...	...	NI	NI	NI	0.25	64.16	...
		Jessore	...	...	...	...	...	...	...	NI	NI	NI	0.18	42.44	...
		Jessore	...	...	...	...	...	...	...	NI	NI	NI	0.20	40.60	...
		Jessore	...	...	...	...	...	...	...	NI	NI	NI	?	40.60	...
	Moorebhadra	Kandi	...	...	...	...	...	...	...	NI	NI	0.30	0.32	64.80	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	0.06	0.46	60.27	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	0.31	63.67	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	0.10	58.27	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	0.20	0.08	61.54	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	0.46	0.20	65.35	...
	Khataghat	Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	61.80	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	61.80	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	61.80	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	61.80	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	61.80	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	61.80	...
East Bengal.	Chittagong	Cor's Bazar	...	...	...	...	...	...	...	NI	NI	1.37	1.08	139.42	...
		Chittagong	...	...	...	...	...	...	...	NI	NI	1.37	1.11	118.80	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	2.45	?	113.80	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	0.15	?	87.41	...
	Chittagong Hill Tracts	Khataghat	...	...	...	...	...	...	...	NI	NI	0.05	1.55	63.02	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	0.80	1.06	77.71	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	70.81	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	65.76	...
	Khataghat	Khataghat	...	...	...	...	...	...	...	NI	NI	NI	1.43	64.80	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	64.80	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	64.80	...
		Khataghat	...	...	...	...	...	...	...	NI	NI	NI	?	64.80	...

## Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of November 1890—contd.

Administrative Division.	District.	Station.	RAINFALL							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of May 1890.	Average rainfall from 1st of May to date.
			Saturday, 16th November.	Sunday, 16th November.	Monday, 17th November.	Tuesday, 18th November.	Wednesday, 19th November.	Thursday, 20th November.	Friday, 21st November.	Number of rainy days.	Amount of rainfall in inch.				
NORTH-BENGAL	Noakhali	Gourmaddi	...	...	...	...	...	...	...	NH	NH	NH	?	42.90	?
		Naokhali	...	...	...	...	...	...	...	NH	NH	NH	1.53	37.34	140.26
		Fenny	...	...	...	...	...	...	...	NH	NH	NH	2.40	108.10	108.93
	Farrakka	Harishchandra	...	...	...	...	...	...	...	NH	NH	NH	0.90	108.37	?
		Rangpur	...	...	...	...	...	...	...	NH	NH	NH	?	108.37	?
	Dacca	Madatipore	...	...	...	...	...	...	...	NH	NH	NH	0.20	41.91	81.55
		Farrakka	...	...	...	...	...	...	...	NH	NH	NH	0.20	40.45	81.11
	Bogra	Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	0.20	44.90	81.55
		Dacca	...	...	...	...	...	...	...	NH	NH	NH	0.01	57.78	80.01
		Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	0.14	56.68	80.09
MID-BENGAL	Bhul Tippera	Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	1.12	60.71	81.08
		Joydebpore	...	...	...	...	...	...	...	NH	NH	NH	0.05	59.71	80.31
		Joydebpore	...	...	...	...	...	...	...	NH	NH	NH	?	60.20	?
	Bhul Tippera	Agartala	...	...	...	...	...	...	...	NH	NH	NH	0.05	67.11	80.44
		Comilla	...	...	...	...	...	...	...	NH	NH	NH	0.71	67.11	74.61
		Chandpur	...	...	...	...	...	...	...	NH	NH	NH	0.18	80.78	74.61
	Bhul Tippera	Brahmanbaria	...	...	...	...	...	...	...	NH	NH	NH	0.65	84.04	80.86
		Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	76.11	?
		Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?
	Bhul Tippera	Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?
SOUTH-BENGAL	Bhul Tippera	Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?
		Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?
		Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?
	Bhul Tippera	Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?
		Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?
		Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?
	Bhul Tippera	Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?
		Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?
		Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?
	Bhul Tippera	Manchhinda	...	...	...	...	...	...	...	NH	NH	NH	?	84.04	?

## Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of November 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 1st May 1890.	Average rainfall from 1st May to date.
			Saturday, 16th November.	Sunday, 17th November.	Monday, 18th November.	Tuesday, 19th November.	Wednesday, 20th November.	Thursday, 21st November.	Friday, 22nd November.	Number rainy days.	Rainfall week.				
NORTH BENGAL —continued.	Champeran	Motihari	...	...	...	...	...	...	NH	NH	NH	0.01	72.00	...	...
		Battish	...	...	...	...	...	...	NH	NH	NH	0.01	64.89	...	...
		Bapaka	...	...	...	...	...	...	NH	NH	NH	?	80.76	...	...
SOUTH BENGAL	Seram	Gopalpur	...	...	...	...	...	...	NH	NH	NH	0.11	52.17	...	...
		Chopra	...	...	...	...	...	...	NH	NH	NH	0.06	50.84	...	...
		Chopra	...	...	...	...	...	...	NH	NH	NH	0.06	48.27	...	...
	Shahabad	Chopra	...	...	...	...	...	...	NH	NH	NH	0.16	52.47	...	...
		Chopra	...	...	...	...	...	...	NH	NH	NH	0.06	43.14	...	...
		Chopra	...	...	...	...	...	...	NH	NH	NH	0.39	41.11	...	...
		Chopra	...	...	...	...	...	...	NH	NH	NH	0.12	44.13	...	...
		Chopra	...	...	...	...	...	...	NH	NH	NH	0.08	40.70	...	...
	Gya	Aurungabad	...	...	...	...	...	...	NH	NH	NH	0.12	59.88	...	...
		Gya	...	...	...	...	...	...	NH	NH	NH	0.23	60.84	...	...
		Gya	...	...	...	...	...	...	NH	NH	NH	0.00	54.81	...	...
		Gya	...	...	...	...	...	...	NH	NH	NH	0.14	55.85	...	...
		Gya	...	...	...	...	...	...	NH	NH	NH	?	55.85	...	...
	Patna	Patna	...	...	...	...	...	...	NH	NH	NH	0.07	50.09	...	...
		Patna	...	...	...	...	...	...	NH	NH	NH	0.06	52.13	...	...
		Patna	...	...	...	...	...	...	NH	NH	NH	0.13	40.73	...	...
		Patna	...	...	...	...	...	...	NH	NH	NH	0.16	43.83	...	...
		Patna	...	...	...	...	...	...	NH	NH	NH	?	48.34	...	...
	Monghyr	Bagnosari	...	...	...	...	...	...	NH	NH	NH	0.21	44.80	...	...
		Monghyr	...	...	...	...	...	...	NH	NH	NH	0.07	56.94	...	...
		Jamui	...	...	...	...	...	...	NH	NH	NH	0.08	60.22	...	...
		Gogri	...	...	...	...	...	...	NH	NH	NH	?	70.44	...	...
		Shakhpura	...	...	...	...	...	...	NH	NH	NH	?	47.76	...	...
South Bhaul- pore.	Bhaul-pore	...	...	...	...	...	...	NH	NH	NH	0.21	58.77	...	...	
	Bhaul-pore	...	...	...	...	...	...	NH	NH	NH	0.07	42.11	...	...	
	Bhaul-pore	...	...	...	...	...	...	NH	NH	NH	?	59.04	...	...	
	Bhaul-pore	...	...	...	...	...	...	NH	NH	NH	?	59.04	...	...	
Sonthal Par- gunnas.	Rajmahal	...	...	...	...	...	...	NH	NH	NH	0.11	50.00	...	...	
	Sonthal	...	...	...	...	...	...	NH	NH	NH	0.06	50.78	...	...	
	Sonthal	...	...	...	...	...	...	NH	NH	NH	0.06	74.20	...	...	
	Sonthal	...	...	...	...	...	...	NH	NH	NH	0.11	74.11	...	...	
	Sonthal	...	...	...	...	...	...	NH	NH	NH	0.30	40.43	...	...	
	Sonthal	...	...	...	...	...	...	NH	NH	NH	2.15	76.48	...	...	
	Sonthal	...	...	...	...	...	...	NH	NH	NH	?	49.81	...	...	
CALCUTTA AND NEAR.	Hemtabagh	Pachamra	...	...	...	...	...	...	NH	NH	NH	0.16	65.34	...	...
		Hemtabagh	...	...	...	...	...	...	NH	NH	NH	0.09	48.07	...	...
		Hemtabagh	...	...	...	...	...	...	NH	NH	NH	0.05	48.07	...	...
		Hemtabagh	...	...	...	...	...	...	NH	NH	NH	0.34	40.02	...	...
		Hemtabagh	...	...	...	...	...	...	NH	NH	NH	?	40.02	...	...
	Lohardugga	Lohardugga	...	...	...	...	...	...	NH	NH	NH	0.15	53.10	...	...
		Lohardugga	...	...	...	...	...	...	NH	NH	NH	0.33	41.57	...	...
		Lohardugga	...	...	...	...	...	...	NH	NH	NH	0.33	44.27	...	...
		Lohardugga	...	...	...	...	...	...	NH	NH	NH	0.33	41.55	...	...
		Lohardugga	...	...	...	...	...	...	NH	NH	NH	?	41.70	...	...
Singbhoom	Chakrabarti	...	...	...	...	...	...	NH	NH	NH	0.23	53.04	...	...	
	Chakrabarti	...	...	...	...	...	...	NH	NH	NH	?	54.01	...	...	
	Chakrabarti	...	...	...	...	...	...	NH	NH	NH	?	51.44	...	...	
Measbhoom	Purulia	...	...	...	...	...	...	NH	NH	NH	0.21	44.22	...	...	
	Gobindpore	...	...	...	...	...	...	NH	NH	NH	0.21	53.84	...	...	
	Gobindpore	...	...	...	...	...	...	NH	NH	NH	0.21	48.20	...	...	
	Gobindpore	...	...	...	...	...	...	NH	NH	NH	?	44.13	...	...	
	Gobindpore	...	...	...	...	...	...	NH	NH	NH	?	44.13	...	...	

Explanation.—... indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding space in the total rainfall columns are left blank.

CALCUTTA, the 25th November 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS  
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 21st  
OF NOVEMBER 1890.

FINE weather has continued throughout the week, both in Bengal and over the Bay, with high pressure, and temperature generally below the normal. At the commencement of the week the pressure distribution was about normal with slight gradients from west to east, the usual faint wind circulation and cloudless skies. Though a steady rise of pressure went on from the 15th till the 18th, the general conditions underwent no change, except that the defect in temperature began to disappear in the eastern districts. On the 19th pressure fell very slowly in Behar, while the rise continued elsewhere, and from being westerly, wind directions became first irregular, and afterwards east over the whole of the northern half of the province. With this change temperature rose slowly on the 19th in all districts, and on the 20th at all except the stations in East Bengal and part of North Bengal, where excess was almost general, and ranged up to  $37^{\circ}$  at Rampore Beaulah. North-easterly winds were still blowing on Friday, the last day of the week, in North Bengal, North Behar, and parts of South-West and East Bengal, and temperature was generally rising, but otherwise ordinary weather prevailed. In the south of the Bay, however, conditions were beginning to be unsettled; pressure from being very high was falling, and indraught to a low-pressure area in the extreme south was more distinct.

Pressure, as stated above, has been very high throughout the week, especially in the south of the Bay, and the distribution more uniform than usual. Means for the week are all considerably above the normal, excess varying from a twentieth of an inch in Behar and North Bengal to a tenth in the south of Orissa.

Temperature, as compared with the normal, was lowest in the early part of the week, the lowest minimum readings occurring between the 16th and 18th at all except a few stations in East and North Bengal. The highest maximum temperature, however, was generally recorded on the 15th, the first day of the week. In the table giving temperatures at representative stations it will be seen that mean defect during the day has been less than at night at all except Purneah and Darjeeling, where the mean maximum temperature is below and the mean minimum above the normal. For the large divisions means are below the normal by  $\cdot 5^{\circ}$  or less, except in South-West Bengal and South Behar, where defect is  $1\cdot 1^{\circ}$  and  $1\cdot 4^{\circ}$  respectively, and in North Bengal, where there is excess of  $\cdot 8^{\circ}$ .

*Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 21st of November 1890.*

[illegible]

**Rainfall.**—One shower of .13 inch fell at Buxa on the 15th.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 21st of November 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.		Rainy days.		Since 1st of month.		Since 16th May 1890.			
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.		
Orissa ... ..	80.4	58.5	68.5	62.2	72.3	-0.5	Nil	0.26	-0.23	0.0	0.3	-0.3	1.50	03.27	52.46	
South-West Bengal ...	86.3	54.1	67.8	50.9	73.0	-1.1	Nil	0.01	-0.01	0.0	0.1	-0.1	0.17	0.20	50.83	51.20
East Bengal ... ..	84.7	59.7	61.9	52.4	74.3	-0.3	Nil	0.07	-0.07	0.0	0.1	-0.1	0.17	0.56	71.43	73.45
North Bengal ... ..	83.7	56.5	61.1	61.0	71.1	+0.9	Nil	0.01	-0.01	0.0	0.1	-0.1	0.23	0.14	35.09	53.81
North Bihar ... ..	83.3	51.9	66.3	58.0	69.3	-0.3	Nil	0.03	-0.03	0.0	0.1	-0.1	Nil	0.04	44.35	47.96
South Bihar ... ..	83.2	51.1	60.3	54.9	67.8	-1.6	Nil	0.01	-0.01	0.0	0.1	-0.1	0.00	0.13	56.53	45.10
Chutia Nagpur ... ..	79.3	49.5	72.9	52.6	65.3	-0.3	Nil	0.04	-0.04	0.0	0.1	-0.1	0.03	0.26	46.06	46.15

\* Chyabassa not included.

METEOROLOGICAL OFFICE, BENGAL;

The 25th November 1890.

O. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

#### Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 16th to 22nd November 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	"	"	"	"	"	"	Inches.	"	%	Inches.
November...	16th ...	30.070	60.0	80.0	22.0	58.0	75.6	62.6	.495	58.4	45	Nil
"	17th ...	027	69.7	80.4	21.5	58.9	75.6	65.6	.493	58.6	56	"
"	18th ...	.087	72.0	80.9	17.8	63.1	76.6	69.6	.531	65.6	69	"
"	19th ...	.110	71.8	81.4	19.6	62.1	76.6	67.4	.549	61.6	60	"
"	20th ...	.088	71.2	80.4	18.5	61.9	76.6	67.1	.538	61.0	59	"
"	21st ...	.117	71.9	80.0	18.0	62.0	76.1	67.4	.569	62.6	65	"
"	22nd ...	.124	71.3	80.7	18.8	61.9	76.3	67.5	.557	62.0	61	"

The mean 10 A.M. pressure of the seven days ... .. 30.098

The mean temperature of the seven days ... .. 71.1

The extreme variation of temperature ... .. 22.5

The maximum temperature ... .. 81.4

The mean 10 A.M. relative humidity of the seven days ... .. 59

The total fall of rain from 16th to 22nd November 1890 ... .. Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,








For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;

The 24th November 1890.



## Results of the Meteorological Observations taken at the Alipore Observatory from 16th to 22nd November 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
Nov.	16th	134.8	0.6	30.000	68.1	70.2	21.8	57.4	62.3	0.485	60.1	73	WNW and calm	22	Nil	Clear, 
"	17th	132.5	9.4	.007	68.9	70.5	20.5	59.0	63.7	.525	60.3	75	N by W and calm	31	"	Chiefly clear, 
"	18th	138.5	8.9	.024	70.9	70.7	17.3	62.4	66.1	.578	63.0	77	N and calm	17	"	Chiefly clear, 
"	19th	138.3	9.1	.037	70.5	70.7	18.5	61.2	65.8	.574	62.8	78	NE and calm	12	"	Chiefly clear, 
"	20th	136.8	8.6	.035	69.6	70.3	18.9	60.4	65.4	.573	62.8	81	NNE and calm	12	"	Chiefly clear, 
"	21st	135.3	9.0	.048	70.2	80.3	20.2	60.1	66.7	.573	62.8	79	NNW, calm and variable.	19	"	Chiefly clear, 
"	22nd	138.8	9.6	.064	70.3	79.4	18.1	61.3	65.4	.564	62.4	78	NNE and calm	28	"	Chiefly clear, 

The mean pressure of the seven days	...	...	...	Inches.	30.031
The average pressure of the corresponding period for 24 years, S.-G.'s Office	...	...	...	Inches.	29.992
The total number of hours of bright sunshine	...	...	...	Hours.	64.2
The maximum possible number of hours of sunshine	...	...	...	Hours.	76.7
The mean temperature of the seven days	...	...	...	...	69.8
The average temperature of the corresponding period for 24 years, S.-G.'s Office	...	...	...	...	73.8
The extreme variation of temperature	...	...	...	...	22.9
The maximum temperature	...	...	...	...	80.3
The highest velocity of the wind in one hour	...	...	...	Miles.	6
The highest pressure of wind on one square foot	...	...	...	lbs.	?
The mean relative humidity	...	...	...	%	77
The average relative humidity of the corresponding period for 24 years, S.-G.'s Office	...	...	...	%	70

The total fall of rain from 16th to 22nd November 1890	...	...	Inches.	Nil
The average fall of the corresponding period for 24 years, S.-G.'s Office	...	...	Inches.	0.01
The total fall from 1st January to 22nd November 1890	...	...	Inches.	61.25
The average fall of the corresponding period for 24 years, S.-G.'s Office	...	...	Inches.	65.14

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

 dew,  fog.

J. H. GILLILAND.

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;  
Calcutta, the 24th November 1890.

## MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 1st November 1890.

## BIRTHS.

The births registered during the week ending with Saturday, the 1st November 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 29.1 per 1,000 of the aggregate population of those towns, which is 1,081,574. This rate is 4.2 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted—vide the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	27.5	25.4	28.9	25.0	26.5	24.9	30.1

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.		11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.
Bardwan	18.7	22.8	13.7	23.8	Narainganj	40.7	24.8	70.6	60.2
Midnapore	18.6	7.7	7.7	30.1	Chittagong	8.4	9.4	...	11.7
Hughli and Chinsurah	41.0	40.2	27.6	42.7	Comilla	27.0	27.0	40.3	16.8
Serampore	40.1	23.6	42.2	63.0	Patna City	12.3	14.3	13.2	11.4
Uttorpara	37.7	47.9	47.9	47.9	Gya	30.7	30.3	19.3	16.4
Howrah	20.3	24.6	22.2	31.2	Arrah	45.2	30.3	31.5	21.2
Bah	31.2	22.1	24.6	10.5	Muzaffarpore	21.7	24.8	27.7	27.7
Krishnanagar	1.5	18.9	16.1	22.7	Durghanga	43.3	57.0	50.2	59.0
Ranaghat	12.0	12.0	18.9	18.0	Chupra	40.3	40.3	11.1	22.9
Bentipore	17.2	4.8	...	19.3	Bhawalpore	42.5	16.5	...	40.2
Jessore	0.1	6.1	12.2	...	Munshyr	52.8	57.1	65.1	51.5
Rampore Bawalsh	30.4	31.8	36.8	36.8	Purneah	24.8	6.9	12.9	3.4
Darjiling	61.9	61.9	14.8	...	Pooli	15.9	16.8	16.4	21.0
Dacca	18.2	24.0	13.8	27.9					
					Total	29.5	23.0	19.4	29.1

It will be seen that last week the highest birth-rate was returned from Narainganj (66.2) and the lowest from Purneah (3.4). No births were registered during the week in Jessore and Darjiling towns.

## DEATHS.

The deaths registered during the week under review correspond to an annual rate of 23.7 per 1,000 of the population. The rate of the week is 7.4 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1887—vide the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	29.9	29.5	22.7	23.1	26.3	31.1	23.7

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.		11th Oct. 1890.	18th Oct. 1890.	25th Oct. 1890.	1st Nov. 1890.
Bardwan	24.4	22.0	22.9	26.1	Narainganj	37.2	24.8	41.4	60.5
Midnapore	27.9	12.4	9.9	21.7	Chittagong	16.4	14.7	...	12.5
Hughli and Chinsurah	27.9	22.2	14.8	21.2	Comilla	12.4	11.6	23.1	11.6
Serampore	43.2	47.1	60.4	22.4	Patna City	20.4	16.3	16.0	13.8
Uttorpara	22.4	21.7	...	20.4	Gya	54.6	24.1	44.9	27.3
Howrah	14.2	17.6	19.5	16.9	Arrah	23.9	19.0	8.4	10.5
Bah	22.1	22.1	22.1	14.0	Muzaffarpore	24.3	24.9	14.6	14.6
Krishnanagar	5.7	...	...	1.6	Durghanga	20.7	30.4	29.2	26.0
Ranaghat	12.0	24.1	24.9	21.0	Chupra	27.2	20.1	20.1	17.1
Bentipore	3.6	2.5	...	10.6	Bhawalpore	16.6	17.2	...	16.1
Jessore	0.0	...	...	...	Munshyr	20.8	21.7	24.2	27.1
Rampore Bawalsh	24.7	25.0	4.3	20.6	Purneah	12.8	6.9	20.2	27.7
Darjiling	64.5	21.9	44.6	20.7	Pooli	42.0	25.2	18.9	22.7
Dacca	12.2	14.2	20.9	20.9					
					Total	26.2	22.6	20.4	23.7

It will be seen that last week the highest mortality occurred in the town of Serampore (82.4) and the lowest in Santipore (10.5).

Measured by last week's mortality, the highest annual death-rates from cholera, fever, bowel-complaints and other causes occurred in the following towns:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Bowel-complaints.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Patna City	... 5.5	Jessore	... 42.8	Darjiling	... 29.6	Utterpara	... 37.7
Monghyr	... 5.4	Rampore	36.8	Serampore	... 15.7	Serampore	... 33.4
		Darjiling	... 29.6			Narainganj	... 20.4
		Serampore	... 29.4			Poori	... 16.8
		Ranaghat	... 24.0			Oya	... 15.7
		Purneah	... 20.8			Dacca	... 11.0
						Midnapore	... 10.8

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 1.8 from cholera, against 1.9 per 1,000 in the preceding week; 10.6 from fever, against 10.4; 3.3 from bowel-complaints, against 2.8; 2 from injury, against 4; and 7.9 from other causes, against 4.8 in the preceding week. No deaths were registered from small-pox during the week.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	... 22.4	Christians	... 7.5	Under 1 year	... 200.8
Females	... 35.2	Hindus	... 24.0	1 and under 5 years	... 35.3
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	89	Mahomedans	... 23.7	5 " 10 "	... 11.8
				10 " 15 "	... 7.0
				15 " 20 "	... 15.4
				20 " 30 "	... 11.8
				30 " 40 "	... 10.9
				40 " 50 "	... 15.8
				50 " 60 "	... 28.2
				60 years and upwards	... 58.5

Detailed information regarding the vital statistics of the twenty-seven principal town, dealt with in the above review will be found in the statement appended.

W. H. GRACE, *Dip. Publ. Health, Camb.*,

*Sanitary Commissioner for Bengal.*

The 22nd November 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 1st November 1900.

1	2	3	4	5	6	7	8	9	10	11	12																				
DISTRICTS	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—																							
		Males.	Females.	Total.	NUMBER OF—			DISEASE.																							
					Males.	Females.	Total.	RATIO PER 1,000 OF POPULATION PER ANNUM.																							
								DEATHS FROM—																							
								Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.										
Ratio of deaths per 1,000 of population per annum in the previous week.										Sex.			Ratio of male deaths to every 100 female deaths, calculated on the basis of the mortality rates to the last week of the month and female population.																		
Males.	Females.	Total.	Males.	Females.	Total.																										
Sardwan	Sardwan	14,083	16,017	34,080	9	13	22	18.7	19.8	63.6	69	...	...	...	13	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	115
Midnapore	Midnapore	16,927	16,633	33,560	8	5	13	12.4	7.7	20.1	100	...	...	...	4	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	177
Hughli	Hughli and Chinsurah.	16,354	16,820	31,657	14	10	24	20.2	10.4	42.7	160	...	...	...	10	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	72
Barrackpore	Serampore	13,355	12,937	26,402	15	14	29	25.8	27.5	53.0	92	...	...	...	15	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	115
	Uttarpore	5,000	2,404	8,210	1	4	5	9.4	37.7	47.2	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	101
Howrah	Howrah	53,183	37,680	90,415	30	25	55	17.4	16.3	31.5	120	...	...	...	11	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	85
	Bali	7,834	6,979	14,813	1	2	3	3.5	7.0	10.5	59	...	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29
Nuddea	Erishnagar	13,493	14,214	27,477	7	5	12	13.2	9.5	22.7	110	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	53
	Kanchghat	4,021	4,654	8,675	1	1	2	6.0	8.0	12.0	100	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	38
	Santipore	12,705	16,979	29,684	5	...	11	10.3	8.8	19.3	120	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	110
Jessore	Jessore	4,830	3,664	8,494	...	...	...	...	...	...	...	...	...	...	7	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11
Rajshahye	Rampore Beaulah	10,766	9,083	19,791	4	...	14	15.8	21.0	36.8	75	...	...	...	16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	42
Darjiling	Darjiling	4,579	2,439	7,018	...	...	...	...	...	...	...	...	...	...	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	42
Dacca	Dacca	42,782	37,379	80,161	...	30	43	14.2	13.0	27.8	115	...	...	...	11	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	46
	Narsinganj	7,004	4,936	12,661	10	5	16	41.4	24.8	66.2	166	...	...	...	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	78
Chittagong	Chittagong	19,340	8,799	22,189	3	2	5	7.0	4.7	11.7	150	...	...	...	8	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	176
Tipperah	Comilla	5,153	5,353	10,506	2	5	7	11.0	7.7	19.3	150	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	133
Patna	Patna City	75,702	51,474	100,237	17	18	35	6.5	5.6	11.4	94	17	...	...	14	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	96
Gya	Gya	33,290	37,631	74,121	13	13	26	7.6	8.8	16.4	91	2	...	...	17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	89
Shahabad	Arrah	20,000	21,603	43,603	11	7	18	13.1	8.4	21.3	157	...	...	...	6	1	1	1	9	...	...	...	...	...	...	...	...	...	...	...	88
Mozaffarpore	Mozaffarpore	23,094	19,038	42,742	17	14	31	20.7	17.0	37.7	121	2	...	...	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	68
Durbhanga	Durbhanga	53,774	52,922	100,000	40	29	75	30.2	22.8	59.0	139	2	...	...	16	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	55
Saran	Obupre	25,116	26,554	51,670	20	13	33	30.1	13.1	33.2	163	2	...	...	7	1	1	6	17	20	...	...	...	...	...	...	...	...	...	...	74
Bhagulpore	Bhagulpore	20,630	37,613	57,453	20	25	45	23.6	22.6	46.2	104	3	...	...	4	4	1	8	20	27	...	...	...	...	...	...	...	...	...	...	115
Monkhyr	Monkhyr	23,154	20,306	43,460	31	20	51	23.0	23.6	51.5	119	6	...	...	12	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	133
Purneah	Purneah	2,453	6,553	10,416	...	1	1	...	...	...	...	...	...	...	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	46
Poori	Poori	13,247	11,637	24,794	7	3	10	14.7	6.3	21.0	233	...	...	...	5	2	1	3	17	...	...	...	...	...	...	...	...	...	...	...	61
Total		220,220	210,500	430,720	232	224	456	16.6	15.8	32.2	119	64	...	...	116	47	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

DISTRICTS.	NAMES OF MUNICIPALITIES.	Class.								Age.																				
		DEATHS AMONG—				RATIO PER 1,000 OF POPULATION PER ANNUM.				DEATHS.								RATIO PER 1,000 OF POPULATION PER ANNUM.												
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 25 years.	25 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 25 years.	25 and under 30 years.	30 and under 40 years.
Bardwan	Bardwan	18	5				59.5	23.3			10	5		2		2	1	4	3	4	15.7	115.2		41.3		13.1	7.0	47.1	63.5	140.4
Midnapore	Midnapore	12	4				24.1	14.4			3					1	2	4	1	3	24.9				7.1	18.8	53.8	13.2	83.2	
Huckli	Huckli and Oum-purab	17	4				33.9	14.9			2	4	2	1	1	1	1	1	1	5	12.4	93.7	36.0	21.0	20.7	5.4	12.5	20.9	133.4	
Serampore	Serampore	38	7				72.1	38.4			10	2	12		1	4	7	5	3	1	73.4	80.4	41.4		23.3	38.6	78.2	16.2	132.4	301.7
	Utterpara	6					32.4				2			1			1		2		66.0			108.8			49.0		24.4	
Howrah	Howrah	27	0				29.6	15.2			8				1	3	0	3	1	6	50.6	40.9			7.1	6.9	16.2	13.3	9.3	83.2
	Salt	3	1				11.0	30.7												4		10.1								142.1
Nudda	Krishnagar	5	1				14.0	6.3			3	1					1			1	81.3	21.1					13.1			30.1
	Benaghat	3	1				21.3	34.1				2					1			1		13.9					41.7			91.4
	Santipore	5	1				12.6	5.8			2		1	1	1					1	12.1		13.9	17.9	23.4				22.8	
Jessore	Jessore	4	4				46.1	34.4			1	2	2		1	1	1			1	23.0	21.5	63.6		71.0	25.9	34.0			113.4
Bajshahye	Banspore Bamsah	4	11				21.9	35.3			4	3	1				5	1		4	51.3	73.3	21.0				47.3	21.2		216.1
Darjiling	Darjiling	8	1				20.0	85.0			1	3					2	2	1		42.8	212.6					72.6	150.3	213.1	
Dacca	Dacca	12	10				23.4	13.2			2	2		2	4	2	2	2	5	2	16.4	14.1		13.1	28.8	0.9	31.4	12.4	54.0	18.7
	Narsingganj	0	3				42.3	42.4			3					1		3	1	1	93.2					19.3		113.8	66.3	79.8
Chittagong	Chittagong	1	10				65.3		31.0						1	5	3		1	1					21.8	66.2	40.8		47.9	63.6
Tipperah	Cumtiah	1	2				8.7	14.1			1		1				1				17.1		31.9			18.8				
Patna	Patna City	25	16				16.9	20.3			3	7	4	3	2	4	4	5	6	3	36.2	24.9	12.4	10.3	9.3	7.3	5.0	13.3	23.1	11.3
Gya	Gya	33	7				23.6	22.6			9	6	4		1	4	3	2	3	6	20.5	63.5	23.7		9.9	14.1	12.3	10.6	23.7	60.6
Bhababad	Arrah	4	6				6.1	21.0			3	1	1			1				3	13.1	11.7	10.1			6.0				24.1
Morsherpore	Morsherpore	9	3				15.6	12.6			4	2			3	1				2	21.7	23.7			51.3	6.1				42.7
Durbhanga	Durbhanga	26	6				1	14.8			9	5	2		1	6	3		2	1	25.2	34.2	13.3		13.0	19.3	14.0		23.7	114.0
Saran	Chapra	11	6				14.1	36.2			3	2			1	2	1	1	2	3	18.4	20.1			15.0	11.3	0.7	5.0	23.2	45.0
Bhagalpore	Bhagalpore	14	6				18.3	14.1			4	3	1	1	2	3	2	2	1	1	17.4	22.9	8.0	6.3	24.0	14.3	11.2	16.5	12.3	14.4
Monshyr	Monshyr	27	14				31.4	67.9			11	2	3		3	6	7	4		6	33.2	16.7	23.1		41.3	23.1	43.8	32.6		87.0
Purneah	Purneah	5	3				28.3	27.0					1		1	1	1		2	2			23.0		53.3	16.8	18.2		111.0	123.9
Poori	Poori	17					30.0				1	3	1	3		1		1	4	3	47.6	80.9	24.2	33.2		9.8		15.6	93.2	86.4
TOTAL		1	349	131			7.6	24.0	23.7		96	64	33	16	21	48	67	38	42	74	200.8	36.9	11.9	7.6	15.4	11.8	16.9	14.9	96.2	85.6



## PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

## SOUTH-WESTERN CIRCLE.

## NUDDIA RIVERS.

Statement showing Quantities of Goods carried during the month of September 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.	
		Quantity—Tons.		Value.	Quantity.	Value.
		Up.	Down.	Total. Rupees.	Tons.	Rupees.
627	1. Grain ...	633.84	7,424.83	8,058.67	8,058.07	5,29,357
.....	2. Cotton ...	.....	.....	.....	.....	.....
180	3. Oilseeds ...	52.43	2,809.59	2,862.02	2,862.02	2,66,051
245	4. Salt ...	3,155.8	56.78	3,212.53	3,212.53	3,43,782
4	5. Piece-goods ...	1	51	1.51	1.51	5,700
27	6. Metal ...	113.98	108.39	222.37	222.37	32,850
68	7. Building materials ...	213.80	190.04	403.84	403.84	2,580
1,764	8. Miscellaneous ...	8,527.82	24,154.08	32,981.90	32,981.90	43,28,380
99	9. Fuel ...	2,409.32	128.36	2,537.68	2,537.68	24,758
.....	10. Timber ...	.....	45 c. ft.	45 c. ft.	45 c. ft.	135
16 rafts	11. Bamboos ...	131 c. ft.	12,825 "	12,956 "	12,956 "	1,276
3,014 & 16 rafts.	12. Total ...	{ 15,107.99 & 131 c. ft.	{ 35,172.53 & 12,870 c. ft.	{ 50,280.52 & 13,001 c. ft.	{ 50,280.52 & 13,001 c. ft.	{ 55,34,819
3,104 & 3 rafts.	13. Total of same month last year	{ 14,764 & 36 c. ft.	{ 34,527 & 266 c. ft.	{ 49,291 & 302 c. ft.	{ 49,291 & 302 c. ft.	{ 54,89,254
		Up.	Down.	Total.		
14. Total number of boats plying cargo No.		1,027	1,987	3,014	Total tollage of month— 24 + 25 + 26 ...	
14a. Empty boats, steamers, &c. No.		666	131	797	Total tollage of same month last year ...	
15. Total number of boats plying passenger No.		1,431	970	2,401		
15a. Empty boats " No.		219	29	248		
16. Total registered tonnage, cargo Tons		39,003.70	73,091.54	112,095.24	Memorandum of Tollage.	
17. Total registered tonnage, passenger Tons		1,996	933	2,929		
18. Ton-mileage		.....	.....	.....		
19. Estimated value of cargo Rs.		23,20,563	32,12,845	55,33,408	1. Balance not recovered on the 1st of the month ...	
20. Number of passengers No.		3,407	1,750	5,157	2. Tollage per month ...	
21. Rafts, bamboos C. ft.		131	12,825	12,956	3. Total ...	
22. Do., bullabs " "		.....	45	45	4. Amount paid into treasury during the month ...	
23. Estimated value of rafts Rs.		16	1,395	1,411	5. Balance due at the end of the month ...	
24. Tollage on boats " "		9,847-2-6	16,970-13-0	26,817-15-6		
25. Compounded tollage on boats Rs.		.....	.....	.....		
26. Tollage on rafts " "		1-2-0	16-11-0	17-13-0		
27. Total tollage on boats per ton-mile ...		.....	.....	.....		
28. Total tollage on rafts per 100 cubic feet ...		.....	.....	0-2-2		

\* Boats in these rivers do not pay per mile.

Abstract for the month of September 1890 as compared with the corresponding month of the previous year.

	1890-91.		1889-90.	
	During the month.		During the month.	
	Rs.	A. P.	Rs.	A. P.
Tollage ...	26,835	12 6	1,17,987	13 0
	27,060	15 6	1,17,069	8

CALCUTTA,  
21st 24th November 1890. (G. A. G. SHAW,   
Under-Secy. to the Govt. of Bengal

## PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 97½ MILES.

Statement showing Quantities of Goods carried during the month of September 1890.

Number of boats or rafts.	DESCRIPTION.	* TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total. Rupees.	Tons.	Rupees.	
89	1. Grain ...	707	123	830	50,106	830	50,106
...	2. Cotton ...	.....	.....	.....	.....	.....	.....
2	3. Oilseeds ...	22	.....	22	1,925	22	1,526
29	4. Salt ...	.....	313	313	35,795	313	35,795
3	5. Piece-goods ...	.....	16	16	11,200	16	11,200
1	6. Metal ...	.....	1	1	150	1	150
8	7. Building materials ...	13	30	43	703	22	543
730	8. Miscellaneous ...	224	434	658	64,980	655	64,724
8	9. Fuel ...	.....	34	34	580	27	180
rafts	10. Timber ...	432 c. ft.	.....	432 c. ft.	346	432 c. ft.	346
"	11. Bamboos ...	275 "	350 c. ft.	625 "	57	625 "	57
70 & rafts	12. Total ...	{ 966 & 707 c. ft.	{ 951 350 c. ft.	{ 1,917 & 1,057 c. ft. }	1,65,842	{ 1,886 & 1,037 c. ft. }	1,65,026
71 & rafts	13. Total of same month last year.	{ 896 & 1,820 c. ft.	{ 618 .....	{ 1,514 & 1,820 c. ft. }	1,52,540	{ 1,420 & 1,820 c. ft. }	1,51,846
		Up.	Down.	Total.			Rs. A. P.
Total number of boats plying cargo No.		430	440	870	Total tollage of month— 24+25+26 ...		3,779 11 9
Total number of boats plying passenger No.		94	64	158	Total tollage of same month last year ...		3,895 3 9
Total registered tonnage, cargo Tons		2,786	2,690	5,476	Memorandum of Tollage.		
Total registered tonnage, passenger Tons		689	626	1,315			
Ton-mileage ...		107,062	105,301	212,363			
Estimated value of cargo Rs.		50,763	1,14,676	1,65,439			
Number of passengers No.		1,630	923	2,553			
Rafts, bamboos C. ft.		275	350	625			
Do., ballahs "		432	.....	432			
Estimated value of rafts Rs.		373	30	403			
Tollage on boats "		1,895-14-3	1,869-14-6	3,765-12-9			
Compounded tollage on boats Rs.		.....	0-8-0	0-8-0			
Tollage on rafts "		12-9-0	0-14-0	13-7-0			
Total tollage on boats per ton-mile Rs.		.....	.....	0-0-3-3			
Total tollage on rafts per 100 cubic feet Rs.		.....	.....	1-4-4			
					1. Balance not recovered on the 1st of the month		5,425 15 0
					2. Tollage per month ...		3,779 11 9
					3. Total ...		9,205 10 9
					4. Amount paid into treasury during the month ...		6,299 7 6
					5. Balance due at the end of the month ...		2,906 3 3

Abstract for the month of September 1890 as compared with the corresponding month of the previous year.

		1890-91.		1889-90.	
		During the month.	To end of the month.	During the month.	To end of the month.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Age ...	...	3,779 11 9	33,546 8 3	3,895 3 9	28,951 9 0

CALCUTTA,  
26th November 1890.G. A. G. SHAW,  
Under-Secy. to the Govt. of Bengal.

## PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

## SOUTH-WESTERN CIRCLE.

## CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of September 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.	
		Quantity—Tons.			Value.	Quantity.	Value.
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.
528	1. Grain ...	7,803	.....	7,803	7,61,499	7,803	7,61,499
1	2. Cotton ...	25	.....	25	13,300	25	13,300
19	3. Oilseeds ...	324	.....	324	40,624	324	40,624
290	4. Salt ...	623	5,159	5,782	5,36,293	5,782	5,36,293
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
3	6. Metal ...	11	10	21	7,493	21	7,493
89	7. Building materials ...	2,315	14	2,329	41,278	2,329	41,278
2,277	8. Miscellaneous* ...	15,508	1,458	16,966	18,99,287	16,966	18,99,287
484	9. Fuel ...	10,667	1,112	11,779	85,747	11,779	85,747
.....	10. Timber ...	.....	.....	.....	.....	.....	.....
.....	11. Bamboos ...	.....	.....	.....	.....	.....	.....
3,691	12. Total ...	37,276	7,753	45,029	33,85,521	45,029	33,85,521
3,620	13. Total of same month last year.	37,732	7,421	45,153	33,48,325	45,153	33,48,325

		Up.	Down.	Total.		
14. Total number of boats plying cargo	No.	3,287	404	3,691	Total tollage of month— 24 + 26 + 26	Rs. A
14a. Empty	...	1,757	516	2,273	...	28,867 11
15. Total number of boats plying passenger	No.	521	2	523	Total tollage of same month last year	27,589 5
16. Total registered tonnage, cargo	Tons	1,21,589	20,742	1,42,331	Memorandum of Tollage.	
17. Total registered tonnage, passenger	Tons	921	3	924		
18. Ton-mileage	...	986,815	207,420	1,194,235	Rs. A	
19. Estimated value of cargo	Rs.	27,47,999	6,37,522	33,85,521	1. Balance not recovered on the 1st of the month	1,261 13
20. Number of passengers	No.	2,637	10	2,647	2. Tollage per month	28,867 11
21. Rafts, bamboos	C. ft.	.....	.....	.....	3. Total	30,129 9
22. Do., bullahs	"	.....	.....	.....	4. Amount paid into treasury during the month	29,158
23. Estimated value of rafts	Rs.	.....	.....	.....	5. Balance due at the end of the month	971 2
24. Tollage on boats	"	23,784-14-9	5,082-13-0	28,867-11-9		
25. Compounded tollage on boats	Rs.	.....	.....	.....		
26. Tollage on rafts	"	.....	.....	.....		
27. Total tollage on boats per ton-mile	Rs.	.....	.....	0-0-4-64		
28. Total tollage on rafts per 100 cubic feet	Rs.	.....	.....	.....		

**ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).  
CALCUTTA AND EASTERN CANALS.**

Number of tons or cwt.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
812	(a) Jute ...	11,165	.....	11,165	10,94,187	11,165	10,94,187	
45	(b) Jaggery ...	330	70	400	44,900	400	44,900	
5	(c) Sugar ...	44	.....	44	11,025	44	11,025	
2	(d) Tobacco ...	.....	14	14	2,800	14	2,800	
500	(e) Fish ...	73	3	76	21,332	76	21,332	
17	(f) Hides ...	43	.....	43	9,600	43	9,600	
107	(g) Poultry ...	28	.....	28	22,270	28	22,270	
23	(h) Hay and straw ...	201	.....	201	4,212	201	4,212	
69	(i) Oil ...	.....	1,090	1,090	1,06,855	1,090	1,06,855	
43	(k) Earthenware ...	70	... ..	70	982	70	982	
652	(m) Other miscella- neous ...	3,554	281	3,835	5,81,124	3,835	5,81,124	
2,277	Total Miscellaneous...	15,508	1,458	16,966	18,99,287	16,966	18,99,287	

**PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.**  
**SOUTH-WESTERN CIRCLE.**

**TOLLY'S NULLAH.**

*Statement showing Quantities of Goods carried during the month of September 1890.*

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		Remarks.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupees.	
1,146	1. Grain ...	3,950	19	3,969	3,969	3,42,703	
1	2. Cotton ...	3	.....	3	3	1,900	
23	3. Oilseeds ...	549	...	549	549	69,187	
105	4. Salt ...	718	571	1,289	1,289	1,19,581	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	
.....	6. Metal ...	.....	.....	.....	.....	.....	
639	7. Building materials ...	6,868	.....	6,868	6,868	24,140	
791	8. Miscellaneous* ...	3,672	66	3,738	3,738	3,69,783	
142	9. Fuel ...	2,215	.....	2,215	2,215	16,755	
2 rafts.	10. Timber ...	925 c. ft.	125 c. ft.	1,050 c. ft.	1,050 c. ft.	2,625	
5 "	11. Bamboos ...	187 "	.....	187 "	187 "	23	
2,847 & 7 rafts.	12. Total ...	{ 17,975 & 1,112 c. ft.	{ 656 & 125 c. ft.	{ 18,631 & 1,237 c. ft.	{ 18,631 & 1,237 c. ft.	{ 9,46,697	
3,170 & 9 rafts.	13. Total of same month last year ...	{ 16,642 & 3,763 c. ft.	665	{ 17,307 & 3,763 c. ft.	{ 17,307 & 3,763 c. ft.	{ 11,81,995	
14. Total number of boats plying cargo ... No.		Up.	Down.	Total.	Total tollage of month— 24+25+26 ...		Rs. A. P.
		2,756	91	2,847			7,646 11 0
14a. Empty "		959	171	1,130	Total tollage of same month last year ...		7,951 0 8
15. Total number of boats plying passenger ... No.		397	6	403	<i>Memorandum of Tollage.</i>		
16. Total registered tonnage, cargo ... Tons		49,139	2,268	51,407			
17. Total registered tonnage, passenger ... Tons		829	9	838			
18. Ton-mileage ...		400,465	36,288	436,753	1. Balance not recovered on the 1st of the month ...	503 4 0	
19. Estimated value of cargo Ra.		8,80,382	63,667	9,44,049	2. Tollage per month ...	7,646 11 0	
20. Number of passengers No.		2,542	16	2,558	3. Total ...	8,149 15 0	
21. Rafts, bamboos C. ft.		187	.....	187			
22. Do., bullahs "		925	125	1,050			
23. Estimated value of rafts Ra.		2,331	317	2,648	4. Amount paid into treasury during the month ...	7,783 0	
24. Tollage on boats "		7,078-8-6	558-0-0	7,636-8-6			
25. Compounded tollage on boats ... Ra.		.....	.....	.....	5. Balance due at the end of the month ...	366 15 0	
26. Tollage on rafts "		8-4-6	1-14-0	10-2-6			
27. Total tollage on boats per ton-mile Ra.		.....	.....	0-0-3-35			
28. Total tollage on rafts per 100 cubic feet ... Ra.		.....	.....	0-18-1			

\* For details, see next page.

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).  
TOLLY'S NULLAH.

Number of boats or mds.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		Remarks.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupess.	Tons.	Rupess.	
92	(a) Jute ...	484	....	484	46,942	484	46,942	
75	(b) Jaggery ...	428	9	437	48,980	437	48,980	
	(c) Sugar ...	.....	.....	.....	.....	.....	.....	
12	(d) Tobacco ...	95	14	109	21,525	109	21,525	
61	(e) Fish ...	3	2	5	1,320	5	1,320	
1	(f) Hides ...	....	.....	.....	80	.....	80	
14	(g) Poultry ...	6	.....	6	1,324	6	1,324	
200	(h) Hay and straw ...	420	.....	420	8,821	420	8,821	
49	(i) Oil ...	580	18	598	58,537	598	58,537	
77	(k) Earthenware ...	87	.....	87	1,217	87	1,217	
210	(m) Other miscellaneous.	1,569	23	1,592	1,81,037	1,592	1,81,037	
791	Total Miscellaneous...	3,672	66	3,738	3,69,783	3,738	3,69,783	

ABSTRACT FOR THE MONTH OF SEPTEMBER 1890, AS COMPARED WITH THE  
CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	TRAFFIC, 1889-91.				TRAFFIC, 1890-91.			
	During the month.		To end of the month.		During the month.		To end of the month.	
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Calcutta and Eastern Canals ...	28,867	11 9	1,19,932	3 3	27,560	5 6	1,27,297	4 6
Tolly's Nullah ...	7,646	11 0	48,142	14 0	7,951	0 3	41,577	0 9
Total ..	36,514	6 9	1,68,075	1 3	35,511	5 9	1,68,874	5 3

CALCUTTA,  
The 25th November 1890.G. A. G. SHAW,  
Under-Secretary to the Govt. of Bengal.

## CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 22nd November 1890,  
as compared with the corresponding week of the previous year.

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 22ND NOVEMBER 1890.			WEEK ENDING SATURDAY, THE 23RD NOVEMBER 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	295	73,725	1,152	54	13,600	231
Jute ...	440	3,46,925	4,294	220	1,08,198	1,911
Firewood ...	181	76,900	1,137	78	45,375	643
Other articles ...	1,176	3,03,225	4,360	686	1,86,710	3,062
Total ...	2,192	6,96,775	10,943	1,033	3,53,878	5,847



## Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of August 1890, as compared with the same month of the previous year.

STAPLES.	1890.		1889.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
Coal	Tons. 1,858	Tons. 1,810	Tons. 8,362	Tons. 1,244	Tons. 11,205	Tons. 9,406	Tons. 1,699	Tons. 238
Cotton, raw	8	27	6	320	31	398		
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece-goods—								
1.—European—								
a.—in bales and bundles	1,777	78	2,342	231	1,840	2,618		767
b.—in boxes								
2.—Indian—								
a.—in bales and bundles								
b.—in boxes								
Grains—								
2.—Rice	2,886	3,000	1,837	1,918	3,723	3,252	3,588	
3.—Others	3,113	2,000	859	8,811	3,973	4,370		1,097
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed								
2.—Skins of sheep, &c.—	2	421	4	251	420	703	171	
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed		3,900		8,431	3,900	5,451		4,522
b.—Unscrewed	85	42,090	9	43,890	42,380	43,908		1,528
2.—Gunny-bags and cloth	90	922	60	930	7,012	718	32	
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Brass and copper, wrought	625	77	1,028	96	702	1,116		414
4.—Iron								
5.—Tin								
6.—Others								
Oils—								
2.—Kerosene	377	3	587	7	550	594	236	
3.—Others	373	43	209	8	318	317	94	
Oil-seeds—								
1.—Linseed								
2.—Mustard and mustard								
3.—Til or gingelly								
4.—Niger	146	1,068	114	2,302	1,314	2,417		2,103
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
2.—Betel nuts	61	400	113	70	407	160	282	
3.—Others	311	100	260	131	474	391	78	
Railway plant and rolling-stock			4,454	1,414	13,980	5,908	7,062	
Salt	3,304	26	2,741	14	8,080	2,767		
Sugar—								
1.—Unrefined								
2.—Refined	777	146	348	329	925	671	254	
Tea—								
1.—Foreign								
2.—Indian		2,219		2,244	2,219	2,214		23
Wood—								
1.—Timber	75	46	489	53	120	521		401
2.—Firewood	1,510		1,547		1,510	1,547		37
Tobacco	47	1,645	30	1,928	1,002	1,064		268
All other articles of merchandise—								
1.—Unmanufactured	2,097	1,270	2,633	1,014	3,976	4,447		471
2.—Manufactured	470		538		470	538		68
Hay, straw, and wool (C. & S. E. Section)								
Total	14,747	62,827	28,207	20,063	102,601	98,970	14,270	10,640

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of August 1890.

INCREASES.		Tons.
Coal	For railway and flotilla consumption.	1,689
Rice	Goalundo contributed 11,000 maunds and the Northern Section the remainder.	2,533
Railway plant and rolling-stock	For repairs and renewals.	7,062
Salt	The despatches from Cuttack increased by 44,914 maunds.	929
DECREASES.		Tons.
Cotton piece-goods	Ordinary fluctuation of traffic.	767
Jute, screwed	Narayanganj shows the large decrease of 1,75,380 maunds.	4,522
Jute, unscrewed	The decrease in despatches from Narayanganj amounted to 52,128 maunds.	1,109
Oil-seeds	Narayanganj shows the largest decrease, 18,235 maunds, and Narayang follows with a decrease of 5,854 maunds.	1,103

CALCUTTA, the 17th November 1890.

F. P. QUINLAN,  
Examiner of Accounts.

## EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 4 weeks ended 25th October 1890, as compared with the same period of 1889.

STAPLES.	1889.		1890.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
<b>ANIMALS, LIVING.</b>								
Horses, ponies, and mules	No. 85	Rs. 403	No. 7	Rs. 142	No. 28	Rs. 350	No. 880	Rs. 614
Cattle	" 601	4,321	" 432	3,719	" 169	602	"	"
Sheep and goats	" 3,120	2,633	" 3,704	3,147	"	"	"	"
Other kinds	"	"	"	"	"	"	"	"
Mares	" 772	487	" 391	131	" 533	356	"	"
Camels and mules	" 147	213	" 130	213	"	"	"	"
Carriage and Indian rubber	"	"	"	"	"	"	"	"
Chinese and Japanese ware	"	"	"	"	"	"	"	"
Coal and coke, up	4,72,445	1,17,045	4,80,009	1,41,874	21,434	"	"	24,937
Do, down	22,31,791	2,44,281	21,33,541	2,04,255	4,23,250	51,870	32,865	6,848
Cotton, raw	22,311	19,780	22,078	20,014	"	"	"	"
COTTON, MANUFACTURED.	Twist and yarn (European)	8,167	9,789	6,442	8,893	1,725	1,372	"
	Do, (Indian)	14,905	9,267	13,737	7,060	3,079	908	"
	Piece-goods (European)	1,69,374	1,71,323	1,67,526	1,60,680	12,749	"	10,166
	Do, (Indian)	26,313	18,568	31,440	25,290	"	5,833	0,782
DRUGS AND MEDICINES.	Asafetida	122	91	140	87	"	4	"
	Other sorts, not intoxicating	1,830	1,090	1,447	1,910	"	79	117
	Intoxicating drugs (other than opium, i.e., arsenic, belladonna, ganja, and shafa, &c.)	833	449	522	297	301	132	"
	Indigo	5,802	13,549	10,999	25,190	"	6,897	14,631
DYING MATERIALS.	Madder or manjit	"	"	"	"	"	"	"
	Barlow-r	170	91	100	46	64	43	"
	Indigo	15,044	14,440	6,846	3,726	8,289	10,720	"
	Other kinds	3,433	2,370	4,107	2,196	"	074	707
EARTHENWARE AND PORCELAIN.	Do, raw	40,072	5,735	95,841	10,718	"	64,675	6,979
	Do, manufactured (gunny-bags and cloth)	44,341	26,195	49,756	29,540	"	5,395	6,174
	Other kinds, raw	3,237	906	0,918	2,736	"	3,101	7,781
	Do, manufactured	2,631	735	1,284	850	747	278	"
FRUITS & NUTS.	Coconuts	10,000	4,567	3,731	1,000	0,575	2,917	"
	All other kinds	79,850	25,083	25,353	22,235	3,501	8,703	"
	Wheat	1,97,012	64,945	2,12,742	67,733	"	14,420	3,710
	Gram and pulses	4,35,052	63,412	2,04,582	70,582	30,070	"	7,400
GRAIN & PULSES.	Rice, husked	9,01,424	71,427	3,01,364	68,087	24,740	12,860	"
	Do, unhusked	7,007	9,203	49,257	0,133	11,750	1,370	"
	Other rain and spring crops	1,67,394	23,630	1,00,274	29,190	37,120	6,300	"
	Government stores	14,898	32,172	13,637	18,452	6,460	18,720	"
HIDES & SKINS.	Hides of cattle	3,782	2,106	4,005	2,714	"	183	519
	Skins of sheep, goats, and small animals	28,778	14,539	20,089	12,111	2,108	1,429	"
	Do, raw	15,010	4,636	11,811	4,661	140	"	325
	Do, dyed	1,424	1,041	1,302	892	122	349	"
LAC.	Do, stick	120	41	109	40	"	"	465
	Do, stick and other kinds	19,249	8,819	11,513	9,286	721	"	179
	Do, stick and other kinds	19,039	4,677	15,243	5,165	"	2,184	542
	Do, stick and other kinds	1,409	2,441	1,784	3,081	"	460	1,571
LEATHERS.	Do, unmanufactured	2,840	3,046	3,366	5,379	"	"	1,083
	Do, manufactured	16,845	12,472	14,539	13,530	296	63	"
	Do, raw	390	808	305	215	122	"	"
	Do, raw	80,107	17,170	1,10,905	70,900	"	14,719	1,400
METALS AND MANUFACTURES.	Brass and copper	91,718	10,220	20,054	10,404	"	1,122	836
	Iron	67,534	67,041	77,000	44,432	10,468	12,609	"
	Other metals	4,410	8,846	5,852	5,104	357	732	"
	Do, raw	70,336	33,798	74,045	42,063	3,351	"	8,295
OILS.	Do, raw	3,441	2,165	802	1,142	573	1,021	"
	Do, raw	425	8,135	3,036	3,020	"	115	3,211
	Do, raw	29,301	77,708	22,025	10,098	4,279	8,000	"
	Do, raw	10,379	6,013	8,884	5,040	3,801	1,834	"
PROVISIONS.	Other kinds	20,040	1,010	44,323	1,015	"	"	"
	Do, raw	20,040	1,010	44,323	1,015	"	"	"
	Do, raw	20,040	1,010	44,323	1,015	"	"	"
	Do, raw	20,040	1,010	44,323	1,015	"	"	"
RAILWAY MATERIALS, CONSTRUCTION ACCOUNT.	Do, raw	41,401	1,12,014	4,00,345	63,400	50,407	19,804	"
	Do, raw	41,401	1,12,014	4,00,345	63,400	50,407	19,804	"
	Do, raw	41,401	1,12,014	4,00,345	63,400	50,407	19,804	"
	Do, raw	41,401	1,12,014	4,00,345	63,400	50,407	19,804	"
SALT.	Do, raw	14,799	5,298	10,112	5,150	1,097	198	"
	Do, raw	2,26,370	64,734	1,91,780	63,114	33,590	1,030	"
	Do, raw	2,26,370	64,734	1,91,780	63,114	33,590	1,030	"
	Do, raw	2,26,370	64,734	1,91,780	63,114	33,590	1,030	"
SEEDS.	Do, raw	66,692	9,355	88,402	18,234	"	31,800	8,250
	Do, raw	66,692	9,355	88,402	18,234	"	31,800	8,250
	Do, raw	66,692	9,355	88,402	18,234	"	31,800	8,250
	Do, raw	66,692	9,355	88,402	18,234	"	31,800	8,250
SILK.	Do, raw	13,011	8,309	7,781	0,807	6,753	1,540	"
	Do, raw	13,011	8,309	7,781	0,807	6,753	1,540	"
	Do, raw	13,011	8,309	7,781	0,807	6,753	1,540	"
	Do, raw	13,011	8,309	7,781	0,807	6,753	1,540	"
SPICES AND MARBLE.	Do, raw	1,08,241	10,773	1,64,780	13,280	"	30,108	1,628
	Do, raw	1,08,241	10,773	1,64,780	13,280	"	30,108	1,628
	Do, raw	1,08,241	10,773	1,64,780	13,280	"	30,108	1,628
	Do, raw	1,08,241	10,773	1,64,780	13,280	"	30,108	1,628
SUGAR.	Do, raw	65,043	10,203	49,019	9,497	4,015	700	"
	Do, raw	65,043	10,203	49,019	9,497	4,015	700	"
	Do, raw	65,043	10,203	49,019	9,497	4,015	700	"
	Do, raw	65,043	10,203	49,019	9,497	4,015	700	"
TEA.	Do, raw	38,321	12,750	33,193	13,436	125	"	1,073
	Do, raw	38,321	12,750	33,193	13,436	125	"	1,073
	Do, raw	38,321	12,750	33,193	13,436	125	"	1,073
	Do, raw	38,321	12,750	33,193	13,436	125	"	1,073
TOBACCO.	Do, raw	22,405	3,941	13,054	8,226	6,811	1,716	"
	Do, raw	22,405	3,941	13,054	8,226	6,811	1,716	"
	Do, raw	22,405	3,941	13,054	8,226	6,811	1,716	"
	Do, raw	22,405	3,941	13,054	8,226	6,811	1,716	"
WOOD.	Do, raw	467	883	787	959	"	340	404
	Do, raw	467	883	787	959	"	340	404
	Do, raw	467	883	787	959	"	340	404
	Do, raw	467	883	787	959	"	340	404
WOOL.	Do, raw	3,471	3,481	3,370	4,072	"	490	591
	Do, raw	3,471	3,481	3,370	4,072	"	490	591
	Do, raw	3,471	3,481	3,370	4,072	"	490	591
	Do, raw	3,471	3,481	3,370	4,072	"	490	591
ALL OTHER RULES OF MERCHANDISE.	Do, raw	1,71,035	1,13,431	1,10,009	1,16,492	40,009	4,040	"
	Do, raw	1,71,035	1,13,431	1,10,009	1,16,492	40,009	4,040	"
	Do, raw	1,71,035	1,13,431	1,10,009	1,16,492	40,009	4,040	"
	Do, raw	1,71,035	1,13,431	1,10,009	1,16,492	40,009	4,040	"
BONES.	Do, raw	49,704	30,703	47,494	20,105	682	737	"
	Do, raw	49,704	30,703	47,494	20,105	682	737	"
	Do, raw	49,704	30,703	47,494	20,105	682	737	"
	Do, raw	49,704	30,703	47,494	20,105	682	737	"
POTATOES.	Do, raw	62,83,632	17,55,879	61,10,521	17,00,456	6,48,155	1,83,231	3,80,232
	Do, raw	62,83,632	17,55,879	61,10,521	17,00,456	6,48,155	1,83,231	3,80,232
	Do, raw	62,83,632	17,55,879	61,10,521	17,00,456	6,48,155	1,83,231	3,80,232
	Do, raw	62,83,632	17,55,879	61,10,521	17,00,456	6,48,155	1,83,231	3,80,232

General remarks on the fluctuation of principal staples carried over the East Indian Railway during the month ended 25th October 1890.

## INCREASE.

Coal and coke, up and down.—In the upward traffic there was an increase in the weight carried, attended with a decrease in earnings. The former was due to despatches of short distance Umari coal from old Katni to Jubbulpore for the Great Indian

Peninsula Railway, and the decrease in earnings to smaller despatches for the Bombay-Bareilly and Central India and the North-Western Railways. The downward traffic showed an advance partly for export to coast ports.

*Turmeric.*—The increase in this commodity occurred chiefly in despatches from Howrah to Patna, Cawnpore and other up-country stations.

*Rice (husked and unhusked).*—Due to heavier despatches from the loop line stations to stations on the Oudh and Rohil-Khand Railway, where the crop was damaged by heavy rains, and to Howrah.

*Other rains and spring crops.*—The increase was chiefly in Indian-corn and other cheap food-grains from stations on the "R" district to stations on the "H" district, and the Oudh and Rohilkhand Railway.

*Government stores.*—Chiefly in despatches of ammunition from Howrah and Bhadravati ghât to Allahabad and Agra, and in ordnance stores from Allahabad Fort and Cawnpore to Agra, Delhi, and stations on the North-Western Railway.

*Iron.*—Consisted chiefly of iron pipes from Howrah for the Allahabad and Agra water-works.

*Ghee.*—The improvement in this staple was chiefly in despatches from stations in the North-Western Provinces to Howrah, owing to a good demand in Calcutta for the Horees Poojah holidays.

*Salt.*—Chiefly in despatches of imported salt from Howrah to the Bengal and North-Western Railway and to the Tirhoot State Railway.

*Sugar (refined and unrefined).*—The increase was chiefly in imported sugar from Howrah to up-country stations.

*Boats.*—Chiefly in despatches from Digha Ghât, Mokameli Ghât, and vid Moghalsura to Bally and Chitpore.

## DECREASES.

*Cotton.*—The decrease was chiefly in despatches from Cawnpore and other cotton-despatching stations in the "D" district owing to last season having been early.

*Piece-goods, European.*—There was an increase in the weight carried, attended with a decrease in earnings, due to heavy short distance despatches from Howrah to stations on the "A" and "R" districts, owing to a good demand for the Durga Poojah holidays. Despatches to Cawnpore and Delhi show a serious falling off.

*Indigo.*—The decrease was in despatches from the North-Western Provinces; the crop suffered much from heavy rains in July and August last.

*Jute, raw.*—The falling off was chiefly in receipts from the Eastern Bengal State Railway vid Naibati and Sahelgunga.

*Gunny.*—Chiefly in despatches from Howrah and neighbouring stations, owing to the state of the export produce trade.

*Grain and pulses.*—The improvement in the weight carried was in short land traffic from stations on the loop line to Patna and stations above, and the decrease in earnings was in long distance traffic from stations on the "D" district.

*Railway materials, foreign.*—Chiefly in heavier despatches of permanent-way material sent last year from Howrah for the Delhi-Umballa-Kaika Railway.

*Seeds.*—Chiefly in mustard and other oil seeds from Patna and the Bengal and North-Western and Tirhoot Railways.

TRAFFIC MANAGER'S OFFICE, CALCUTTA, the 19th November 1890.

N. ST. L. CARTER, Traffic Manager.

## Weekly Return of Traffic Receipts on Indian Railways.

## EAST INDIAN RAILWAY

Approximate Return of Traffic for week ended 15th November 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRATE-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	206,766	73,89,201 11 0	19,34,266 20	5,37,119 2 0	15,513 15 5	8,52,891 19 0	71,498½	70,850½	142,349
Or per mile of railway	136 11 0	183 11 0	12 5 0	3 5 0	10 2 8	5 5 18 8	46 8	46 4	92 12
For previous 19 weeks of half-year	4,250,689	44,70,671 4 8	8,63,13,054 0	23,41,805 2 0	2,06,405 5 8	1,30,16,869 0 2	1,231,740½	1,436,021	2,667,761½
Total for 30 weeks	4,457,455	47,50,981 3 0	3,72,80,224 90	27,79,324 4 8	8,21,910 5 1	1,38,51,773 19 7	1,208,238	1,512,871½	2,721,109½
COMPARISON									
Total for corresponding week of previous year	223,024	3,60,846 4 1	21,51,116 0	5,64,094 3 7	31,001 2 3	2,37,136 10 1	65,070	21,440	145,440
Per mile of railway corresponding week of previous year	149 11 0	236 8 8	14 0 0	3 6 8	14 2 7	5 5 8 0	43 0	14 0	87 0
Total to corresponding date of previous year	4,118,484	42,85,789 0 0	4,16,81,173 80	22,11,895 9 3	3,10,326 0 8	1,47,57,120 2 11	1,300,728	1,507,473	2,808,201

\* The decrease in coaching traffic is partly due to several falling off in traffic, and also to extra trains for troops and Viceroy's body guard having run from Saharanpur to

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI. Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 16th NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 15th NOVEMBER 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 15th NOVEMBER 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 15th NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Per mile worked.	Receipts.	Per mile worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.		
1,426½	Rs. 9,37,127	Rs. 614	1,435½	Rs. 8,32,823	614	1,535½	Rs. 2,07,63,873	592	1,542½	Rs. 2,44,54,164	624	—	Rs. 18,90,746

## PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 15th November 1890, on 67½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	10,062	Rs. 5,749 4 0	Mds. 44,338 0	Rs. 2,386 12 0	Rs. 33 9 0	Rs. 8,008 2 0	1,816	576	2,392
Or per mile of railway ...	181½	100 7 11	773 0	40 0 6	0 9 3	130 7 10	.....	.....	.....
For previous 10 weeks of half-year ...	216,284	1,30,170 8 0	6,25,428 30	61,670 0 0	623 8 0	1,72,375 1 0	22,851½	10,124	32,975½
Total for 20 weeks ...	226,346	1,35,918 13 0	6,57,061 30	64,056 12 0	658 10 0	1,80,083 3 0	27,662½	10,700	38,362½
COMPARISON.									
Total for corresponding week of previous year ...	14,907½	8,190 9 6	32,455 10	2,178 3 0	67 9 3	10,834 5 9	1,808	720	2,528
Or per mile of railway corresponding week of previous year ...	260	148 3 1	673 0	45 1 2	1 2 11	189 7 2	.....	.....	.....
Total to corresponding date of previous year ...	*234,022	*1,50,517 7 2	5,82,746 0	†64,715 7 0	21,440 1 3	1,65,773 0 0	30,647	14,464	45,111

\* Add number of passengers 250½ and Rs. 197 0 8 }  
 † Ditto Mds. 2,810 and " 74 0 0 } on account of supplemental return for 30th September 1889.  
 ‡ Ditto " 579 3 0 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
57½	Rs. 10,636	Rs. 189	57½	Rs. 8,008	Rs. 150	57½	Rs. 20,700	Rs. 189	57½	Rs. 13,00,948	Rs. 184	.....	9,992

\* Added Rs. 851 on account of supplemental return for 30th Sept. 1889.  
 † Added " 2,215 ditto ditto for 30th June 1890.

## TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 15th November 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	15,244	Rs. 2,781 4 0	Mds. 11,743 10	Rs. 487 5 0	Rs. 5 4 6	Rs. 4,294 13 0	903	65	968
Or per mile of railway ...	.....	127 11 2	.....	21 14 5	0 4 0	189 16 1	.....	.....	.....
For previous 10 weeks of half-year ...	369,608	75,404 8 0	1,21,876 0	6,851 7 0	100 10 0	80,416 7 0	17,153	824	18,002
Total for 20 weeks ...	384,852	78,185 10 0	1,33,599 10	7,338 10 0	100 14 0	84,641 4 0	24,071	909	24,980
COMPARISON.									
Total for corresponding week of previous year ...	17,403	4,433 12 0	9,783 20	358 5 0	12 3 0	4,802 9 6	608	70	678
Or per mile of railway corresponding week of previous year ...	.....	189 4 4	.....	16 0 3	0 9 0	216 12 7	.....	.....	.....
Total to corresponding date of previous year ...	350,237	57,696 7 6	*1,90,890 30	*5,131 13 0	†120 15 9	72,949 4 8	16,572	1,300	17,872

\* Added Mds. 2,714-30 and Rs. 52 8 0 }  
 † Ditto " 0 4 0 } on account of supplemental return for 30th September 1889.

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
22½	Rs. 4,903	Rs. 216	22½	Rs. 4,835	Rs. 190	22½	Rs. 1,76,587	Rs. 238	22½	Rs. 1,66,601	Rs. 231	.....	9,986

\* Added Rs. 53 on account of supplemental return for 30th Sept. 1889.  
 † Ditto " 301 ditto ditto for 30th June 1890.

## EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. D., AND ASSAM-BIHAR SECTIONS.)

Approximate Return of Traffic for week ended 8th November 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boats.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	122,802	75,810 0 0	7,35,354 0	1,33,100 0 0	12,070 0 0	2,39,470 0 0	21,900	27,363	49,263
Or per mile of railway	218	99 0 0	961 0	254 0 0	15 0 0	313 0 0			
For previous 12 weeks of half-year	2,452,704	10,07,804 0 0	1,05,00,047 0	24,40,583 0 0	2,84,563 0 0	30,24,813 0 0	3,22,450	502,077	824,527
Total for 12 weeks	2,622,573	11,46,174 0 0	1,12,35,031 0	25,40,173 0 0	3,09,430 0 0	32,59,704 0 0	3,40,400	530,429	870,829
COMPARISON.									
Total for corresponding week of previous year	2,328,258	99,441 0 0	3,07,501 0	1,47,935 0 0	22,044 0 0	2,30,419 0 0	21,200	24,244	45,444
Per mile of railway corresponding period of previous year	345	130 0 0	747 0	317 0 0	29 0 0	303 0 0			
Total to corresponding date of previous year	2,710,382	12,04,102 0 0	1,19,06,128 0	25,27,176 0 0	3,26,736 0 0	34,40,914 0 0	3,49,177	503,576	852,753

\* Audited up to week ending 20th September 1890.

† Excluding summer earnings.

‡ Due to Rishi Jatra.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 27th NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 27th NOVEMBER 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 27th NOVEMBER 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 27th NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
747	2,30,419	253	703	2,39,470	378	719	95,75,456	133	759	2,30,443	274	99,097	

\* Audited up to week ending 20th September 1890.

## BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 8th November 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	22,890	2,440 0 0	47,209 0	4,050 0 0	130 0 0	13,070 0 0	3,640	1,300	4,940
Or per mile of railway	227	78 0 0	378 0	32 0 0	1 0 0	105 0 0			
For previous 12 weeks of half-year	615,012	1,45,673 0 0	7,35,860 0	31,033 0 0	2,712 0 0	32,07,127 0 0	34,200	30,870	65,070
Total for 12 weeks	670,923	1,53,114 0 0	7,82,872 0	34,063 0 0	2,834 0 0	32,21,037 0 0	37,940	33,840	71,780
COMPARISON.									
Total for corresponding week of previous year	240,039	14,753 0 0	55,840 0	4,232 0 0	138 0 0	19,116 0 0	3,357	3,065	6,422
Per mile of railway corresponding period of previous year	274	118 0 0	447 0	34 0 0	1 0 0	153 0 0			
Total to corresponding date of previous year	537,107	1,78,362 0 0	11,56,737 0	1,08,602 0 0	8,291 0 0	2,90,485 0 0	37,132	47,018	84,150

\* Audited up to week ending 20th September 1890.

‡ Due to Rishi Jatra.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 27th NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 27th NOVEMBER 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 27th NOVEMBER 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 27th NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	12,116	153	125	13,070	105	125	4,70,332	117	125	2,30,546	97		63,710

\* Audited up to week ending 20th September 1890.

## DACCA STATE RAILWAY,

Approximate Return of Traffic for week ended 8th November 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	15,619	Rs. 5,980 0 0	Mds. 43,775 0	Rs. 4,980 0 0	Rs. 140 0 0	Rs. 11,940 0 0	3,610	894	2,704
Per mile of railway ...	180	69 0 0	509 0	57 0 0	2 0 0	129 0 0	...	...	...
For previous 18 weeks of half-year ...	267,101	55,932 0 0	3,17,221 0	28,804 0 0	4,604 0 0	7,18,072 0 0	42,781	12,783	55,564
Total for 18 weeks ...	282,611	51,902 0 0	3,00,996 0	28,230 0 0	4,834 0 0	1,29,978 0 0	46,191	13,567	59,758
COMPARISON.									
Total for corresponding week of previous year ...	19,909	6,572 0 0	28,870 0	3,302 0 0	223 0 0	10,097 0 0	3,958	1,017	3,775
Per mile of railway corresponding period of previous year ...	231	76 0 0	336 0	38 0 0	2 0 0	117 0 0	...	...	...
Total to corresponding date of previous year ...	284,373	51,316 0 0	3,23,200 0	35,008 0 0	3,960 0 0	1,30,380 0 0	47,921	17,270	65,191

\* Audited up to week ending 30th September 1890.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 9TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 8TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 5TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
85	Rs. 10,057	Rs. 117	86	Rs. 11,060	Rs. 126	86	Rs. 2,04,840	74	86	* Rs. 2,11,633	77	Rs. 7,174	...

\* Audited up to week ending 30th September 1890.

## NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 8th November 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	2,930	Rs. 1,030 0 0	Mds. 6,687 0	Rs. 330 0 0	Rs. 10 0 0	Rs. 1,370 0 0	500	230	730
Per mile of railway ...	105	38 0 0	246 0	12 0 0	...	50 0 0	...	...	...
For previous 18 weeks of half-year ...	52,594	18,508 0 0	1,01,564 0	10,423 0 0	273 0 0	* Rs. 29,205 0 0	9,759	5,034	14,793
Total for 18 weeks ...	55,203	19,538 0 0	1,08,571 0	10,753 0 0	283 0 0	30,428 0 0	10,259	5,304	15,563
COMPARISON.									
Total for corresponding week of previous year ...	3,006	1,597 0 0	3,337 0	206 0 0	18 0 0	1,688 0 0	536	177	713
Per mile of railway corresponding period of previous year ...	132	48 0 0	141 0	10 0 0	...	58 0 0	...	...	...
Total to corresponding date of previous year ...	59,153	21,839 0 0	1,66,705 0	10,343 0 0	1,462 0 0	32,344 0 0	10,984	5,087	16,071

\* Audited up to week ending 30th September 1890.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 9TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 8TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 5TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 5TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
27½	Rs. 1,368	Rs. 59	27½	Rs. 1,370	Rs. 0	27½	Rs. 53,863	07	27½	* Rs. 55,639	45	Rs. 1,176	2,325

\* Audited up to week ending 30th September 1890.



## BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 8th November 1890, on 601 miles open.

	COACHING TRAFFIC.		MERCHANTS AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchant.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week (on 601 miles open) ...	76,940	32,210	8,72,520	52,754	8,800	61,554	12,009	12,453	24,462
Or per mile of railway ...	127'35	46'41	588'79	70'34	12'74	122'68	...	...	...
For previous 17 weeks of half-year ...	1,284,010	4,99,828	44,88,874	5,57,320	1,18,187	6,75,507	215,001	204,570	419,571
Total for 18 weeks ...	1,360,950	5,31,038	45,61,194	5,70,040	1,26,987	6,97,027	227,010	217,020	444,030
COMPARISON.									
Audited figures.									
Total for corresponding week of previous year, 629 miles open ...	1,00,703	33,786	2,31,459	25,204	7,778	41,468	17,402	15,941	33,343
Per mile of corresponding week of previous year ...	163'08	53'71	368'49	40'23	12'46	66'20	...	...	...
Total to corresponding date of previous year ...	1,400,181	5,02,041	43,90,434	5,60,631	1,40,767	7,03,398	214,532	196,503	411,035

\* Steam-boat earnings for the week, Rs. 7,160.  
Ditto ditto to date, " 97,140.

\* Ajodhya bridge earnings for the week, Rs. 410.  
Ditto ditto to date, " 5,000.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 31st NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 8th NOVEMBER 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 8th NOVEMBER 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 8th NOVEMBER 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
601	93,760	155'68	649	1,18,708	182'90	674	25,92,748	121'30	649	25,92,008	125'08	7,683	...

A. B.—Earnings of B. and N.-W. Section.

Week ended 8-11-90.

Rs.

Coaching ... 15,020

Goods ... 17,490

Other earnings ... 2,590

Total ... 35,100

Week ended 9-11-89.

Rs.

Coaching ... 43,116

Goods ... 6,297

Other earnings ... 5,571

Total ... 54,984

Earnings of Tirhoot Section.

Week ended 8-11-90.

Rs.

Coaching ... 16,200

Goods ... 35,380

Other earnings ... 3,500

Total ... 55,080

Week ended 9-11-89.

Rs.

Coaching ... 42,503

Goods ... 16,907

Other earnings ... 2,302

Total ... 61,712

## DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 25th October 1890 ...

11,018

Corresponding period of 1889 ...

11,953

Decrease ...

935

Receipts per mile for week ending 25th October 1890 ...

Rs. A. P. 215 15 1

Corresponding period of 1889 ...

234 6 9

Decrease ...

18 7 2

Receipts from 1st July to 25th October 1890 ...

1,68,440

Corresponding period of 1889 ...

1,90,737

Decrease ...

22,297

## DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 1st November 1890 ...

11,891

Corresponding period of 1889 ...

12,278

Decrease ...

387

Receipts per mile for week ending 1st November 1890 ...

Rs. A. P. 232 15 4

Corresponding period of 1889 ...

240 12 1

Decrease ...

7 12 9

Receipts from 1st July to 1st November 1890 ...

1,89,861

Corresponding period of 1889 ...

2,03,015

Decrease ...

13,154

## DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

						Rs.
Approximate earnings for week ending 8th November 1890	...	...	...	...	...	11,403
Corresponding period of 1889	...	...	...	...	...	11,853
Decrease	...	...	...	...	...	450
						Rs. A. P.
Receipts per mile for week ending 8th November 1890	...	...	...	...	...	223 9 5
Corresponding period of 1889	...	...	...	...	...	222 6 9
Decrease	...	...	...	...	...	8 13 4
Receipts from 1st July to 8th November 1890	...	...	...	...	...	2,00,704
Corresponding period of 1889	...	...	...	...	...	2,14,869
Decrease	...	...	...	...	...	14,165



# SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, DECEMBER 8, 1890.

## OFFICIAL PAPERS.

*Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

### CONTENTS.

Page.	Page.
OFFER of Rani Manomohini Debi of Putiya, in Rajshahye, to construct wells to improve the supply of water for drinking and bathing purposes in the district ... 2433	Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 23rd to 29th November 1890 ... 2472
Resolution reviewing the reports on the working of District Boards during the year 1889-90 ... 2434	Monthly review of deaths registered in forty-five districts of Bengal for the month of September 1890 ... 2473
Resolution on the Administration Report of the Howrah Bridge for the year ending on the 31st March 1890 ... 2435	Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 8th and week ending 13th November 1890 ... 2477
Rainfall, Weather, and State and Prospects of the Crops ... 2437	Areas leased for irrigation up to the end of August 1890 ... 2485
Results of the Meteorological Observations taken at the Alipore Observatory from 23rd to 29th November 1890 ... 2438	Statement showing heights over mean sea-level and low water in the Rivers Ganges, Bhagirathi, Jallinghee and Brahmaputra for the month of August 1890 ... 2486
Meteorological Report of the Province of Bengal for the week ending Friday the 29th of November 1890 ... 2439	Circular and Eastern Canals for the week ending 29th November 1890 ... 2487
Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 29th of November 1890 ... 2440	Weekly Return of Traffic Receipts on Indian Railways ... 2487

### OFFER OF RANI MANOMOHINI DEBI OF PUTIYA, IN RAJSHAHYE, TO CONSTRUCT WELLS TO IMPROVE THE SUPPLY OF WATER FOR DRINKING AND BATHING PURPOSES IN THE DISTRICT.

REVENUE DEPARTMENT—LAND REVENUE.

Calcutta, the 29th November, 1890.

#### RESOLUTION.

#### READ—

A memorandum from the Commissioner of Rajshahye, No. 135P.W., dated the 27th August, 1890; also No. 94P.W.Ct., dated the 7th November, 1890.

RANI MANOMOHINI DEBI of Putiya, in the district of Rajshahye, having offered to construct a number of wells, at an estimated expenditure of Rs. 10,000 to Rs. 12,000 per annum for four or five years, with a view to improving the supply of water for drinking and bathing purposes throughout the district, the Lieutenant-Governor is pleased to accept this offer, and tenders his thanks to the Rani for her public spirit and liberality.

ORDER.—Ordered that a copy of the Resolution be forwarded to the Commissioner of Rajshahye for information and for communication to the Rani.

Ordered also that a copy of this Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

# RESOLUTION REVIEWING THE REPORTS ON THE WORKING OF DISTRICT BOARDS DURING THE YEAR 1889-90.

## MUNICIPAL DEPARTMENT--LOCAL SELF-GOVERNMENT.

*Calcutta, the 25th November, 1890.*

### RESOLUTION.

#### READ—

The reports from the several Commissioners of Divisions on the working of District Boards during the year 1889-90.

#### Read again—

The Resolution on the working of District Boards in Bengal during the year 1888-89.

The present reports, which are prepared in accordance with the instructions issued in Government Circular No. 21, dated the 1st November 1889, furnish full information on the working of District Boards during the past year, and under separate orders copies have been liberally supplied to those whom they concern. They are a great improvement on the reports submitted in previous years, and in particular the report of Mr. Toynbee, the Officiating Commissioner of Burdwan, deserves commendation. The statistics which accompany them are given in forms recently prescribed by the Government of India, which were only circulated in July last, and it is largely due to the late arrival of these forms, and the difficulty of substituting them in so short a time for those already in use, that delay has occurred in the submission of the reports.

2. Form I appended to this Resolution contains particulars regarding the constitution of the District and Local Boards in

#### Constitution of Boards.

Bengal, the number of meetings held by the Boards, and the average attendance at meetings. There were during the year 38 District Boards and 106 Local Boards; the area comprised within their jurisdiction was 109,391 square miles, and the total population, according to the census of 1881, was 57,185,307.

3. The total number of members of District Boards, including the Chairmen, was 797, of whom 460 were appointed by Government and 337 were elected. Of the total number of members, 243 were officials and 554 non-officials. The number of Europeans or Eurasians and natives of India respectively was 186 and 611. The average number of members of each District Board was 20.97. It was suggested, in paragraph 7 of the Resolution on the working of District Boards for 1888-89, that the number of members of the District Boards of Bhagulpore, Midnapore, Rungpore, and Sarun might be reduced, and the number of members of the Bhagulpore and Midnapore District Boards now consists of 30 and 24, while a proposal to reduce the number of members of the Rungpore District Board to 26 is under consideration. As in the previous year, the Magistrate of the District was in every instance re-appointed Chairman of the District Board on the expiry of his term of office, under section 24 of the Bengal Local Self-Government Act.

4. The total number of members of Local Boards was 1,203, of whom 768 were nominated by Government and 435 were elected. The elective system is in force in 58 Local Boards. Of the total number of members of Local Boards, 163 were officials and 1,040 non-officials. The number of Europeans or Eurasians and natives of India on the Boards was 97 and 1,106 respectively. The average number of members of each Local Board was 11.35. Midnapore (36) and Arrah (30) head the list in point of numbers, but it has been decided to reduce the numerical strength of these Boards on the expiry of the term of office of the existing incumbents.

5. The statements do not in all cases furnish the professional occupation of the members of Boards. This is, however, a very important point, and instructions will separately issue calling for information under this head in future years as well for District and Local Boards as for Municipal Committees. It was found, on occasion of the first elections in 1887,

that the proportion of zemindars elected to the District Boards was about 30 per cent., of pleaders 26·4 per cent., and of Government servants 17·7 per cent., and it is not likely that the proportion has materially changed. Generally speaking the members of District and Local Boards consist of zemindars and talookdars, pleaders and Government servants, with a somewhat larger proportion of medical practitioners and mooktears in the case of Local Boards, and in districts where they are to be found, indigo and tea planters, railway employes and managers of European firms always enjoy a fair share of representation.

6. The year under report witnessed the second general election of members of District and Local Boards which had completed their three years' term of existence, and the elections were on the whole successfully conducted. The following are the remarks recorded by the Divisional Commissioners on the subject.

The Commissioner of Burdwan writes:—

"The second general elections took place during the year under report and new Boards were formed before its close in every district except Midnapore, where the number of members was reduced and the issue of the necessary revised Government notifications took up much time. The elections were, as a rule, successfully conducted, and, with a very few exceptions, fairly suitable and representative members were elected. The pleader element was, perhaps, considering the amount of landed property they possess, disproportionately successful. The educated classes took considerable interest in the elections, but in no case was any general public interest or enthusiasm evoked.

"The elections only failed in one thannah of Burdwan, three of Hooghly, and in one of Beerbhoom. The failures were due in one case to the absence of voters, and in the three others to the absence of timely nominations \* \* \* \* \*

"The inhabitants of thannahs remote from the head-quarters of districts appear to take more interest in the election of representatives than the urban and semi-urban population."

The Commissioner of the Presidency Division writes:—

"The second general elections took place during the year under report, and new Local Boards were formed in every district before the close of the year. The new District Boards, however, were not constituted till after the close of the year. The elections were on the whole successfully conducted, and, with a few exceptions, fairly suitable and representative members were elected.

"In Jessore and Khulna there was no failure of election in any of the thannahs. In the 24-Pergunnahs there were no elections held in thannah Canning (Sudder) or Harwa (Baserhat), and out of two and four members for election in thannahs Hasnabad and Dum-Dum respectively, only one was elected for each thannah. In Nuddea the elections failed in thannah Chapra in the Sudder, as 10 per cent. of the registered voters were not present, and in thannahs Gangni and Tehatta in the Meherpore sub-division, as the electors failed to nominate candidates under Rules 28 and 29. In Moorshedabad there were no elections in thannahs Sujagunge, Gorabazar, Doulatabad, Nowada, and Barna in the Sudder sub-division, Sagar-dighi, Assanpore, Manullabazar, and Shahmagur in the Lalbag sub-division, and Kandi and Khurgram in the Kandi sub-division, in consequence of the omission of the electors to nominate candidates beforehand under Rule 29. All these vacancies were therefore filled up by appointment under section 10 of the Local Self-Government Act."

The Commissioner of Rajshahye states:—

"A general election of members for the Local Boards took place in Rajshahye in December and in Pubna in September last.

"The Magistrate of Rajshahye, who was present at thannahs Puttea, Charghat, Beaulah, and Godagari, states that at each of these places the voters displayed the greatest interest in the proceedings. A Deputy Magistrate was present at Bagmara, and he reports that the voters were animated by the greatest enthusiasm in securing the election of their candidates. The Sub-divisional Officer of Nowgong and the Sub-Deputy Collector of that place, who were present at the thannahs of Nowgong Local Board, state that the voters elected the members with shouts of acclamation and manifestation of the greatest delight.

"The Chairman of the Pubna District Board writes that the dates for the elections having fallen at a season when the flood was at its highest (and the floods of the year were higher than any within recent years), the attendance of the voters was not so large as it would have otherwise been.

"On the whole it appears that a very fair amount of interest was taken in the elections."

The Commissioner of Dacca remarks:—

"The second general election of the members of the several Local Boards in the districts of Dacca and Furreedpore was held in the latter part of September 1889.

"It is satisfactory to note that in no case did the elections fail owing to the non-attendance of a sufficient number of voters. In Dacca it is reported that the electors generally displayed considerable interest in the proceedings, and that in several thannahs the excitement was great and the elections were warmly contested. In Furreedpore the paucity of attendance at the

polling stations, specially in those of Bhanga, Baliakandi, Palong, and Kotalipara, is attributed to the unusually heavy floods of last year which prevented many voters from attending."

The Commissioner of Patna writes—

"The Patna District Board completed its three years' term in September 1889; and although arrangements for its reconstitution were commenced early, the new Board, which consists of 24 members, composed of the official and non-official Europeans and Natives in the same proportion as its predecessor, did not assemble till 10th March. The Local Board elections which were held in the Patna District were fairly successful. Out of 28, the total number of members to be elected, 23 were elected, leaving only 5 to be appointed by Government."

7. Taken together, the total number of meetings held by District Boards was 448, giving an average of 11.79 meetings for each Board. The greatest number of meetings was held in Dinagepore (18), Tipperah (18), Sarun (18), Burdwan (17), Gya (17), Furreedpore (16), and Durbhunga (16), while the least number was held in Hooghly (8), Mymensingh (8), Mozufferpore (8), Chumparun (8), Nuddea (7), Moorshedabad (7), Julpigoree (7), and Jessore (6). Except in the case of Hooghly and Mymensingh, no reason is assigned for the small number of meetings. In regard to Hooghly it is said that, "on the introduction of local self-government three years ago, the members had to meet oftener to consider many important questions of principle which presented themselves for solution, but that matters have since settled into a groove and that fewer meetings had therefore to be called during the year under report than during the two preceding years." In Mymensingh it is stated that "the attention of the Chairman and the other members was devoted more to the execution of the heavy amount of real work done during the year than to taking part in the discussions in the meetings." The Lieutenant-Governor cannot accept either of these reasons as satisfactory, and invites attention to the following remarks recorded by the Commissioner of Burdwan, which are entirely in accordance with the views of Government on this subject:—

"It is difficult to believe that all the business of the various departments now under the control of the District and Local Boards can be transacted in less than 12 meetings during the year. Much of the routine work is no doubt done by the Chairman and Vice-Chairman by the express or implied consent of the Boards; much, too, depends on the individuality of these two officers. But, all things considered, one meeting every month ought to be the minimum number consistently with an intelligent interest in their work on the part of the members. There is, I fear, considerable general truth in the remark made by the Chairman of the Raneegunge Local Board to the effect that, unless matters come before the Board in which the members are directly and personally interested, it is hopeless to expect them to attend regularly. A self-denying public spirit is one of the elements requisite to make local self-government a success in this country."

8. The average attendance at meetings of District Boards was 8.98, the average percentage of attendance being 42.82. The attendance was best in Howrah and Tipperah, amounting to 65 and 62.7 respectively, and worst in Cuttack, where it was only 19.8. In the last-named district six meetings were adjourned for want of a quorum out of 12 convened.

9. The total number of meetings held by all the Local Boards was 788, the average for each being 7.43. Only 8 of the Local Boards held more than 12 meetings, the highest number attained being 15 in Bhubbobah. Six of the Boards held 12 meetings, and the rest less than 12 meetings. The Howrah Local Board held only two meetings, while the Local Boards of Beaulah, Nowgong, and Nattore met only once during the year. For all practical purposes, therefore, these Boards did not exist. The average attendance at meetings of Local Boards was 5.69, and the average percentage of attendance was 50.13.

10. In most districts Local Boards have been entrusted with the administration of the grants for village roads, pounds, ferries, and primary education. In some instances powers relating to water-supply, the grant of rewards for the destruction of noxious animals, and the management and supervision of grant-in-aid and Boards' middle English schools have also been delegated to them.



11. No Union Committees have yet been appointed, but a scheme for their gradual establishment has been submitted to the Government of India, and is still under consideration.

12. The following statement, which is abstracted from Forms II and III appended to this Resolution, shows the principal items of income and expenditure of District Boards during the year under review :—

INCOME.		EXPENDITURE.	
	Rs.		Rs.
I. Land Revenue	16,946	1. Refunds	13,601
VI. Provincial rates	34,32,674	18. Administration	2,58,593
XII. Interest	609	20. Ponds	23,589
XVII. Pounds	8,94,594	22. Education	10,94,140
XIX. Education	30,561	24. Medical	42,546
XX. Medical	7,625	26. Scientific and other minor departments	5,219
XXI. Scientific and other minor departments	1,648	29. Superannuation allowances and pensions	1,300
XXV. Miscellaneous	1,39,874	30. Stationery and printing	48,057
XXXII. Ferries, &c.	3,28,314	32. Miscellaneous	43,365
Contributions	11,02,398	33. Famine relief	2,59,967
Debt	8,19,261	43. Minor works and navigation	4,373
Total	62,79,403	45. Civil works	38,42,891
		Debt	8,25,280
		Total	61,72,240

The names of the above headings are taken from the forms prescribed by the Government of India which are appended to this Resolution, with the exception that the words "Pounds" and "Ferries" are substituted for "Police" and "Civil Works" under Income, and the word "Pounds" for "Police" on the Expenditure side of the accounts. These changes have been made because it should be clearly understood that the Police have no concern with, and have no responsibility for, the administration of pounds, which are entirely under District Boards; while the heading "Civil Works" would be misleading when the item concerned almost exclusively relates to ferry receipts. It should be explained also that though the name of the heading "Provincial Rates" has not been altered, the income shown under this head is derived from a "local rate" or cess which is entirely appropriated and spent within the district where it is realised, and that the Road cess is not a provincial rate in the sense in which the Public Works Cess, which is a provincial asset, may be properly so described.

13. The year 1888-89 closed with a credit balance of Rs. 18,28,843 (corrected figures): at the close of the year 1889-90 this balance was increased to Rs. 19,30,000.

14. Of the total income under this head Rs. 9,365 represent canal tolls realized in Chittagong and the balance sale proceeds of trees, grass, &c. Compared with the previous year, the Chittagong canal revenue shows a falling off to the extent of Rs. 2,213.

15. The entire amount, Rs. 34,32,574, under this head represents the balance of the receipts of the District Road Cess which is credited to District Boards after deducting the cost of collection and revaluation. Compared with the previous year, there was an increase of Rs. 78,704 in the income derived from this source, and this item may be expected to increase slowly but surely in consequence of the revaluations which from time to time are effected in all districts. The largest increase during the past year was in Burdwan and Gya, from Rs. 1,02,826 and Rs. 1,76,014 in 1888-89 to Rs. 1,36,865 and Rs. 1,97,198 respectively.

16. The total receipts from pounds under the Cattle Trespass Act, amounting to Rs. 3,94,594 only, show a net decrease of Rs. 37,321 as compared with the collections of 1888-89, and a decrease of Rs. 25,559 as compared with the estimate (Rs. 4,20,153) on which the Provincial adjustments with District Boards were based. The decrease is, however, more apparent than real, and is mainly due to a change in the system of accounts. Under recent orders of Government, the security advances, amounting to one quarter's demand, taken from the pound farmers at the time of settlement in March 1890, were credited to the suspense head of

accounts, "Deposits," pending adjustment by transfer from "Deposits" to "Pound rents," whereas in previous years such advances were directly credited to "Pound rents."

It is useless therefore to institute any comparison between the realizations during the past and previous years. The estimate for the current year amounts to Rs. 4,42,441, and there seems no reason to suppose that there is any real falling off in pound receipts. In reply to the observation which was made in last year's Resolution that "if Boards are careful to see that security advances are properly taken, and farmers are not permitted to hold on when default occurs, there should be no arrears," it is pointed out by more than one District Board that some farmers, after retaining their pounds during the profitable months of the year, purposely default when the season is over, and that as they have made their profit they are willing to forfeit their security, and that therefore great difficulty is found in settling the pounds for the remainder of the year. This is no doubt a real difficulty, but a remedy appears to lie in the suggestion which is put forward by the Commissioner of the Presidency Division that the payment of pound rents should be fixed not in equal instalments, but according to the different seasons at which crops are liable to damage from cattle trespass. There is a difficulty also in arranging for the proper inspection of pounds. The practice of placing them under the inspection of Educational officers has been definitely forbidden by Government as tending to interfere with the proper inspection of schools. It is observed that in the Shahabad district the District Board have, with the sanction of the Magistrate, introduced a system of inspection of pounds by the Sub-Inspectors of Police. This is no doubt an important duty of the police, who are bound, under the rules in force, to inspect pounds, to see that food and water are properly supplied, to check the accounts and especially to use their utmost endeavours to prevent the dangers of extortion and fraudulent pounding of cattle. But this function is exercised by the police under the orders of the District Superintendent and Magistrate. The police are entirely independent of, and do not act under the authority of, local bodies. What is needed in the interest of District Boards is the systematic inspection of pounds by some responsible officer on their own behalf. It has lately been observed by the Lieutenant-Governor in this connection that such an inspection ought easily to be arranged without additional expense, and that it should result in an expansion of revenue, "for by an examination of the counterfoils, the inspecting officer could readily ascertain from what distance cattle are usually brought to the pounds, and consequently what room there is for the establishment of new pounds, and he could probably also form a shrewd guess whether the rent realized for the pound was a fair one or not." The management of pounds, in regard to which local bodies have now been vested with ample powers, is a good test of the efficiency of the executive administration of District Boards, and it is therefore specially commended by the Lieutenant-Governor to their attention.

17. The receipts under Education declined from Rs. 33,996 in 1888-89 to Rs. 30,561 in the year under review. The falling off was chiefly in the districts of Chittagong and Monghyr. In Chittagong the figures show a refund of Rs. 230 on account of excess credits in the preceding year. Taking each item of the receipts separately, there was an increase of Rs. 1,610 in "School fees" and of Rs. 327 in "Contributions," and a decrease of Rs. 5,204 under the head of "Miscellaneous."

Medical.

18. The total income under this head fell from Rs. 10,875 in 1888-89 to Rs. 7,625 in 1889-90.

19. Of the several items which constitute the income under "Civil works,"

Ferries.

ferry receipts, amounting to Rs. 2,84,164, alone call for notice. Compared with the previous year, there was a falling off of Rs. 1,29,706, but the decrease, like that in the case of pounds, is more fictitious than real. In Nuddea there is a nominal decrease from Rs. 10,834 to Rs. 2,460 in consequence of several ferries having been transferred from the Boards' management to Government. In Bogra there is a decrease from Rs. 9,870 to Rs. 1,410, due principally to the erroneous credit in the previous year of the receipts from Government ferries. A similar reason explains the decrease in Chittagong from Rs. 22,069 to Rs. 10,551, in Patna

from Rs. 21,347 to Rs. 14,154, and in Maldah from Rs. 26,121 to Rs. 963. In Shahabad the receipts decreased from Rs. 15,310 to Rs. 3,929; but as Rs. 19,994 were refunded to Government on account of erroneous credit, a loss of Rs. 16,065 is shown under this head, and is due to a great extent to a change in the system in accounts under which advances which were formerly credited direct are now kept under the head of "Deposits." The amount refunded to Government should properly have been shown under the head of "Refunds." In Mozufferpore there is a decrease of Rs. 6,905 as compared with the preceding year, and also a decrease of Rs. 3,802 as compared with the budget estimate. The first-named decrease is due to the rent for the year 1887-88 originally collected by the Magistrate being transferred to the District Fund in 1888-89, which thus unduly swelled the receipts for that year. The falling off from the estimates is attributed to the "bad state of the ferries made over to the District Board and to short collection of rent owing to the falling off of the grain traffic consequent on the failure of the rice crop in the district during the year 1888-89." The marked decrease in Sarun from Rs. 27,721 to Rs. 4,966 is due to adjustment of accounts. There was a large increase in ferry receipts for the previous year, 1888-89, owing to the orders transferring the ferry receipts not having been communicated until after the close of the year 1887-88. The figures therefore showed the receipts of two years in one. In addition to this, the earnest-money for 1889-90 was included in that year's receipts. Of the districts which show an increase, it is necessary only to explain that the considerable increase in Julpigoree, amounting to Rs. 6,884, is due to the fact that all the ferries in this district have now been transferred by Government to the District Board.

Generally speaking, the Lieutenant-Governor considers that the management of ferries by District Boards has not been unsatisfactory. It is impossible to contend against adverse circumstances such as occurred in Bhagulpore, for instance, where the ferry receipts have fallen off, "owing to the extension of the Tirhoot State Railway much of the traffic to and from North Bhagulpore, formerly carried by the district ferries, being now conveyed across the Ganges by the railway steamers." But in all districts where the approaches to the ferries are kept in good order, and the boats employed in the conveyance of passengers and goods are well looked after, it may be expected that facilities for travelling will be improved, and a gradual increase in income be obtained. When grants were made to District Boards to establish equilibrium between receipts and charges, ferry receipts, amounting to Rs. 2,96,076 per annum, were made over by Government to the Boards; and although no proper comparison can be instituted between this amount and the actual receipts of the past year, there seems no reason to doubt that there has upon the whole been a perceptible improvement in income. The estimate of local officers for the current year amounts to Rs. 3,55,000.

20. The total amount contributed from Provincial funds to District Boards during the year was Rs. 10,98,148, or Rs. 4,37,799 in excess of the previous year, a result which is chiefly due to late adjustments, the Government grants in many cases for two years, and in some instances for three years, having been drawn by the Boards in the year under report. Special orders have lately been passed to avoid the recurrence of such confusion, and the Accountant-General has been instructed to take action on his own authority to place the fixed annual grants at the disposal of each District Board at the beginning of the financial year. The fixed annual grant made by Government to establish equilibrium between the receipts and charges transferred to the management of District Boards, including charges for stationery and forms, but excluding all other special grants, amounts to Rs. 4,14,915. In addition to this a contract grant was made to District Boards, amounting in the past year to Rs. 2,22,924, for the maintenance of Provincial roads, which, under section 74 of the Act, have been transferred to their charge, and grants of Rs. 1,36,728 and Rs. 37,108 respectively were made to the District Boards of Durbhunga and Mozufferpore for expenditure on relief works.

21. The entire amount under this head represents "Deposits and advances." Deposits are sums paid by farmers of pounds and ferries as security for payment of revenue, while advances are sums advanced by the Boards for the execution of works, which

are recovered by adjustment of accounts as the works proceed. In some instances security deposits have been taken from contractors for public works the estimated cost of which was less than Rs. 2,000. Compared with the previous year, there was an increase of Rs. 3,80,539 under both Deposits and Advances. This is chiefly due to the security deposits taken from the farmers of pounds and ferries being credited under this head for the year under report, whereas they were in the previous year credited as pound and ferry collections.

22. The cost of general administration has increased from Rs. 2,46,732 in 1888-89 to Rs. 2,58,533 in the year under report.

*Administration.*

Various reasons have been assigned for the increase, but the chief causes appear to be the transfer of the charges on account of the travelling allowance of members of District Boards from "Miscellaneous" to "Administration" and the increase in the percentage cost of audit and treasury establishments. Considerable sums were also expended during the year in the purchase of furniture for offices of District Boards.

23. With the sanction of the Government of India, rules have been laid

*Pensions of Local Fund employes.*

down declaring the general principles regulating the grant of pensions to employes under local bodies. District Boards are required to pay contribution to pension in case of all pensionable Government officers transferred to their service, and liability for payment of these pensions will then be borne by Government. Special rules have been made applicable to cess establishments entertained by Collectors and sanctioned by the Board of Revenue. It is left for the Boards to make rules which must be sanctioned by the Lieutenant-Governor under section 35 of the Act for employes whose whole service has been under them, and draft model rules have been circulated by Government for the convenience and guidance of Boards in such cases. The Lieutenant-Governor is glad to learn that the promulgation of these rules, which have been long under consideration, has been gratefully acknowledged by the employes on Boards' establishments.

24. The charges on account of cattle-pounds show an increase of Rs. 4,906;

*Pounds.*

which is attributed to the change in the system of accounts, the pay of pound clerks being now charged to "Police" or "Pounds" instead of to "Administration" as in previous years.

25. Compared with the figures of the previous year, the total expenditure under "Education" shows a decrease of Rs. 26,669.

*Education.*

Of the total amount expended, Rs. 1,93,847 represent the cost of inspection, Rs. 2,130. Rs. 72,470, and Rs. 4,06,214 the expenditure on training and special schools, middle schools, and primary schools, respectively, Rs. 2,69,117 the amount of grants-in-aid, Rs. 704 scholarships, and Rs. 59,658 miscellaneous charges. The reports furnished by the Commissioners do not all contain the same information. It is impossible, therefore, to show the statistics regarding schools and scholars in a tabular form. The Lieutenant-Governor, however, notices with satisfaction that the number of primary schools and the expenditure generally on primary education increased during the year. In some districts, notably Midnapore, Howrah, the 24-Pergunnahs, and Moorshedabad, there was a falling off owing to scarcity and floods, but this was more than counterbalanced by the increase in other districts. The number of middle schools slightly declined owing in a great measure to the withdrawal of the grants which had been improperly made in some cases from the allotment for primary education.

26. The Lieutenant-Governor considers it desirable to reproduce in this Resolution the remarks he has already recorded on the educational administration of District Boards when reviewing the annual report of the Director of Public Instruction for the year as follows:—

The educational functions delegated to the District Boards constituted under Act III of 1886 (B.O.) of 1886 include the management of Government primary and middle schools, the distribution of the grant-in-aid allotment for middle schools under private management, the administration of the primary grant, the conduct of the annual examinations of primary schools for rewards, and the award of lower primary scholarships. The Boards are also authorized to establish and maintain, with the sanction of Government, schools of technical instruction, and some have already taken up this question with interest and energy. The Technical Institute, for example, established by the District Board of Rungpore, has attained considerable success. With the object of defining more clearly the functions of the Boards and their relations to the officers

of the Department, revised educational rules under the Act were under consideration and public criticism during 1889-80, and finally promulgated by Government on the 18th April last. Experience has already shown the new rules to be greatly superior to the old. They give somewhat larger powers to the District Boards than they had previously enjoyed, while any departure from the existing system, in regard to the administration of funds or the control of schools, is made conditional on the sanction of Government. The power of the Inspector and his position as a controlling officer are more clearly defined. In accordance with the views of Government, Deputy Inspectors of Schools have in nearly every district been appointed ex-officio members, not only of the District Boards, but also of the Education Committees to which these bodies have generally delegated their ordinary executive duties. The advantages of this plan are already apparent, co-operation and efficiency having often taken the place of friction and mismanagement. The Lieutenant-Governor has again the pleasure of observing that the relations between the Boards and the Deputy Inspectors in the majority of districts are eminently satisfactory. Government must look to the good offices of the authorities in the Burdwan and Orissa Divisions, in which differences have arisen, to put things straight as soon as possible. On the other hand, there are indications that in some places the education work of the District Boards has been allowed to lapse too much into the hands of the Chairman or Vice-Chairman in his executive capacity. While the Lieutenant-Governor allows that there is some force in the excuse that it is ordinarily not easy to arouse any enthusiasm for educational work, except on such occasions as present opportunities for the exercise of patronage, he desires that the District Boards, through their Education Committees, may be fully consulted in all matters of principle and importance, and that their functions may not be over-ridden by the executive officers. The Director has, in a very proper spirit, as a friendly critic, drawn attention to some shortcomings in the work of certain District Boards. It is through no fault on their part that their educational operations have in some cases been hampered for want of funds, the income from ferries and pounds not having kept pace with their educational requirements. But they must be held responsible for such matters as great delay in the despatch of business, especially in disposing of reward bills and in making up examination results, irregularities in the method of accounting for public money, misapplication of the primary grant, or failure to spend fully the allotments for primary education. These are matters which the District Boards are quite capable of correcting for themselves. It is not a matter for surprise that their control and management of middle schools of various classes is less efficient than when the work was performed by high officers of the Education Department. Sir Alfred Croft rightly observes that this decline in efficiency is part of the necessary price paid for Local Self-Government. The policy of entrusting District Boards with certain educational work, in which the Department has given them its steady support, has been deliberately adopted for reasons which have often been stated, and improvement can only be obtained by perseverance. The transfer of large educational powers to Local, as distinguished from District, Boards appears to have been prematurely attempted in some places.

27. The following information regarding special schools is furnished.

Special schools.

In Hooghly there are 56 Sanskrit toles with 268 students. In Bankoora mention is made of six advanced Arabic or Persian schools with 102 and of 33 Sanskrit toles with 331 pupils. In Rungpore the Bayley Technical School is maintained by the District Board. In Backergunge it is in contemplation to start a technical school for teaching carpentry, &c., at the head-quarters of the district. The Board have also voted two scholarships of Rs. 10 each, tenable in the Seebpore Engineering College. In Mymensing, one of the zemindars is said to have offered Rs. 10,000 for opening a technical school in addition to an annual contribution to be made for its maintenance by the District Board, and the matter is under consideration. The Tipperah Board has founded two scholarships of Rs. 15 each, tenable at the technical branch of the Seebpore Engineering College, and these have been awarded to two natives of the district now pursuing their studies in that college on their contracting to serve under the District Board after the completion of their college career. The Chairman further reports that an attempt is being made to establish an artizan school in Comillah under the auspices of the District Board. The Noakholly Board have offered a scholarship of Rs. 10 at the same college, tenable for five years, but apparently no applications have been made for it. It is satisfactory to see from these reports that District Boards have begun to recognise the desirability of encouraging technical education.

28. The question of providing means for the encouragement of female medical education continued to receive the attention

Female Medical Education.

of District Boards. The medical scholarship of Rs. 10 a month offered by the Midnapore District Board was awarded to Sarat Kumari Mitra, a female student of the Campbell Medical School at Calcutta, and she has drawn the stipend since April



1888. The Superintendent of the School speaks favourably of the progress made by her. In Burdwan a sum of Rs. 20 per mensem was set apart for a similar scholarship, and in Bankoora the Board sanctioned the award of a scholarship of Rs. 8 to any female candidate of that district who would be willing to prosecute her studies in any medical school or college, but it appears that no one came forward to take advantage of these offers. The District Board of the 24-Pergunnahs have sanctioned the grant of scholarships of Rs. 5 each a month for two years to two female students of the Campbell Medical School—Srimati Kiron Sasi Mukherjee and Srimati Susila Debi—with effect from the 1st February 1890. Funds were provided by almost all the District Boards in the Rajshahye Division, but no advantage was taken of the opportunities offered. In Rungpore only a scholarship of Rs. 15 per month has been awarded to one Srimati Kailas Bashini Dasi, a student of the Calcutta Female Medical School, who has agreed to practise in the district when qualified. The only district in the Dacca Division where stipends or scholarships were sanctioned by the District Board is Backergunge, where two girls of Brahmo parentage were awarded scholarships of Rs. 10 a month each, tenable in the Campbell Medical School. The District Board, Mymensingh, has, with a view to encourage female medical education, created five appointments of trained nurses under the five Local Boards with a monthly salary or retaining fee of Rs. 25 each. Both Chittagong and Tipperah report that attempts were made to get female students to go to Calcutta for medical education, but no one would come forward. The offer made by the Tipperah Board was for two scholarships of Rs. 15 each, tenable at the Sealdah Campbell Medical School. The Chairman of Tipperah reports that subscriptions are being collected to form an endowment for the establishment of a lady doctor in Comillah, and it is hoped, if this is successful, that it will induce female students to qualify for service in this special branch. In Gya a system of stipends and scholarships for a supply of female native doctors and of trained nurses has been organized during the year, consisting of a midwife, four paid female apprentices, and one mehterani. The monthly expenditure on account of pay of this staff amounts to Rs. 49. The total amount of expenditure incurred during the year, including pay, contingencies, and cost of furniture, &c., was Rs. 1,514-1-9. For the encouragement of female medical candidates who attend the Cuttack Medical School the Cuttack District Board has contributed Rs. 100, to be paid as scholarship to the most deserving female student.

The Lieutenant-Governor has perused this record of the measures adopted by District Boards with much satisfaction, and although the results are not as encouraging as might have been expected, he trusts that the Boards will continue to persevere in this good work, and that the time will come when the fullest advantage will be taken of the opportunities offered to female medical students.

29. The total medical expenditure amounts to Rs. 42,546, and shows an increase of Rs. 16,771 compared with the previous year. The outlay on hospitals and dispensaries amounts to Rs. 30,430, and on sanitation to Rs. 8,758 only.

The following statement shows the number of dispensaries maintained by the District Boards and the expenditure incurred during the year:—

District Board.	Name of dispensary.	Cost of maintenance.	REMARKS.
		Rs.	
Burdwan	Mankar	472	Government gave a grant of Rs. 150 as half the pay of the Civil Hospital Assistant in charge. The Board also realised Rs. 206 as private subscriptions. For nine months only. The Board severed its connection with the dispensary on 1st January 1890.
Hooghly	Bundipore	390	
Jessore	Jhenidah	933	
	Magurah	542	
Khoolna	Bagirhat	761	
Dinagapore	Thakurgaon	480	
	Dupehancha	474	
Bogra	Burigunge	450	
	Joypore		

District Boards.	Names of dispensaries.	Cost of maintenance.	REMARKS.
		Rs.	
Tipperah	Chandpore	830	Includes the cost of repairing dispensary buildings and cost of vaccination.
	Jehanabad	616	
Gya	Aurangabad	1,044	
	Nowadah	536	
	Arwal	.....	Established in 1889-90, but no expenditure incurred during the year.
	Mushruk	796	These figures do not tally with those entered in the annual return.
	Digwarah	643	
Sarun	Maharajgunge	1,061	
	Darowli	1,078	
	Banka	1,601	
	Mudehpura	670	
Bhagalpore	Scoopul	546	
	Protabgunge	780	
	Shahpur	303	
Purneah	Basantpur	471	
Pooree	Khoorda	610	
Balasore	Bhuddruck	2,208	

Besides the above expenditure, many of the District Boards contributed towards the support of medical institutions which were not under their direct management, and in some instances money was spent in affording medical relief during epidemics. The Burdwan District Board paid Rs. 600 to the support of the municipal dispensary in the town of Burdwan and the Bankoora Board Rs. 1,000 for the maintenance of the dispensary at Bankoora. The Beerbhoom District Board expended Rs. 1,471 in maintaining the Soory Charitable Dispensary for the first ten months, and half the net cost for the remaining two months of the year. This Board also contributed Rs. 360 to the Rampur Hât Dispensary. The Midnapore District Board gave a total sum of Rs. 942 in aid of nine dispensaries in that district. The Nuddea District Board gave Rs. 100 in aid of the Krishnagur Charitable Dispensary. The District Board of Rungpore gave a quarterly subsidy of Rs. 75 to each of the three dispensaries of Kurigram, Gaibanda, and Nelphamari in that district. The District Board of Pubna gave a contribution of Rs. 250 towards increasing the accommodation of the Serajgunge charitable dispensary. In Dacca the District Board made a grant of Rs. 60 to the dispensary at Manickgunge. In Backergunge a sum of Rs. 1,200 was paid to the Barisal Municipality for the maintenance of the charitable dispensary. In Mymensingh the payment of Rs. 60 per annum to the Nasirabad Municipality was continued during the year. The Tipperah District Board contributed Rs. 150 and Rs. 600 respectively to the Hajigunge and Comillah Dispensaries. The Chittagong Board has arranged to engage a lady doctor, in connection with the Chittagong Municipal Hospital, to attend all female patients free of charge. The Shahabad District Board gave Rs. 275 towards the support of the Nasirgunge Dispensary. The District Boards of Patna, Shahabad, and Sarun spent Rs. 4,723 on sanitation and medical relief. A monthly contribution of Rs. 130 and Rs. 50 was paid by the Monghyr District Board to the dispensaries situated at the head-quarters of the district and the sub-division of Begusarai. The Maldah District Board paid a subscription of Rs. 75 a month to a class IIB dispensary opened in February last at Mathurapur by Mr. G. Hennessy.

30. Form IV appended to this Resolution contains particulars regarding sanitary works undertaken by District Boards during the year it is stated that in Jessore Rs. 10,000, in Burdwan Rs. 5,000, in the 24-Pergunnahs Rs. 2,000, and in Khulna Rs. 2,000 were allotted for the supply of pure drinking water, but that nothing was spent. The Chairman of the 24-Pergunnahs District Board observes:—

"The question of water-supply is involved in difficulty. The want of good water is felt all over the country, and applications for the excavation or re-excavation of tanks are made to the District Board from time to time, but the Board find it difficult to comply with such applications. The selection of a few solitary villages for such improvement would appear invidious and might excite discontent in parts of the district which were not selected. Moreover, if a tank were cleared or re-excavated, it would seldom be possible



to secure its preservation or to guard it effectively from all external impurities. A provision of Rs. 2,000 was made in the budget for the last three years, but the amount was not expended, as no scheme of water-supply could be devised which would admit of being carried out with such a small grant."

The explanation given in other districts is of a similar character. The total expenditure incurred under this head in the whole of Bengal was only Rs. 8,756 on account of sanitary arrangements at fairs, and in some places in the excavation of wells and tanks. The result is no doubt of a very unsatisfactory character; but as was pointed out in last year's Resolution without the appointment of local agencies specially entrusted with matters relating to village sanitation and empowered to raise the necessary funds, very little improvement can be expected in this direction. A special report in which this question has been fully discussed has been submitted to the Government of India, and the whole question is now under the consideration of that Government.

31. The expenditure under this head is necessarily of a fluctuating character. An additional charge incurred during the year was the cost on account of the general

Miscellaneous. elections. In some districts this charge has been shown under "Administration," whereas it should have come under "Miscellaneous." The necessary transfers should be made when the accounts are audited and adjusted. The expenditure on account of staging bungalows and serais increased from Rs. 12,840 in 1888-89 to Rs. 14,615 in the year under report. There was also an increase of Rs. 116 in the amount of rewards granted for the destruction of wild animals. The district in which the largest amount of rewards was granted was Rungpore, where, it is said, the District Board paid Rs. 484 for the destruction of 15 tigers, 50 leopards, and 12 cubs.

32. The total expenditure shown under the head of famine relief amounts to Rs. 2,59,785, the greater part of which was incurred in the districts of Durbhunga (Rs. 1,69,065)

Famine relief. and Mozufferpore (Rs. 74,239). The whole outlay was on public works.

With a view to the equitable adjustment of the contribution to be made by Government and the District Boards respectively towards the famine relief expenditure in the affected areas of the Patna Division, it was decided in August 1889 to divide the expenditure into three classes, viz.—

*Class I.*—Ordinary district works which the District Boards would in any ordinary year have carried out in the affected area, and for which therefore they made no claim on Government for reimbursement.

*Class II.*—District works undertaken by the Boards as measures of relief, and to be paid for by them.

*Class III.*—Other relief works, whether carried out by the District Boards or by Government, the cost of which the Districts Boards were unable to bear, and gratuitous relief.

This division recognised distinctly the principle which has been laid down, that the duty of providing relief in the way of work must fall in the first place on local funds before provincial funds can be applied, and that Government should come to the assistance of District Boards only when the expenditure is heavier than they can reasonably be expected to bear consistently with their duties in the non-affected areas the maintenance and repairs of the ordinary district communications and the pay of the permanent establishments.

Under section 99 of the Local Self-Government Act III (B.C.) of 1885, District Boards are empowered to incur expenditure on measures for the relief of famine within such financial limits as may be prescribed by the Commissioner of the Division concerned, and the Bengal Famine Code provides that in districts to which this section of the Act has been extended, relief operations should be governed by rules to be issued under section 138. The provisions of section 99 of the Act have now been extended to all the District Boards of the Province, and rules under section 138 have been prepared and issued for their guidance.

33. The expenditure under the head of "Civil works in charge of Public Works officers" increased by Rs. 2,66,078. It must

Civil works. be explained that the expression Public Works officer does not mean an officer in the Public Works Department of Government, and that the whole of the Civil works referred to were undertaken by Engineers in

the employment of District Boards. The expression is used in the prescribed form of accounts in order to show separately the expenditure on Public Works proper from that incurred on account of ferry establishments, contingencies and refunds, which are considered to be in charge of Civil officers, and amounted in the past year to Rs. 1,10,162. The following statement compares the Public Works expenditure for the past three years:—

YEAR.	Original works.	Repairs.	Establishment.	Tools and plant.	Water-supply and water-works.	Drainage works.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1887-88	10,72,715	16,04,900	5,20,594	30,225	4,634	.....	32,32,968
1888-89	11,16,814	17,88,953	5,27,598	27,115	6,261	.....	34,66,841
1889-90	11,71,912	19,43,732	5,57,345	32,893	20,060	5,347	37,32,219

Out of a total outlay of Rs. 37,32,219, no less than Rs. 2,22,924 was defrayed from grants paid to the District Boards from Provincial Revenues as a contract allowance for the maintenance of provincial roads, the charge of which has by arrangement been transferred from the Public Works Department of Government to local bodies. The remainder, or Rs. 35,09,295, represents the expenditure incurred from road cess funds. This amount during the past year was exceptionally large, as a considerable outlay was debited in several districts to Civil works which might more properly have been charged against Famine Relief. A sum of Rs. 10,785 in the Bhagulpore district, of Rs. 6,445 in the 24-Pergunnahs and of Rs. 2,000 in Purneah appears to have been so debited. But the line which separates these heads of account is too slight to render it necessary to order any adjustment. The Lieutenant-Governor regrets that the information furnished is insufficient to enable a comparative statement to be prepared showing the length of roads maintained by District Boards, metalled and unmetalled, and their cost per mile. Separate orders will issue on this point, prescribing a form of statement for adoption in future years.

In the districts marginally noted a considerable expenditure was incurred on original works. The most important of these was the construction of the new Tangail road from Phulbariah to Kalihati, 26 miles in length, on which the District Board of Mymensingh spent no less than Rs. 63,000. As a rule the expenditure on original works is largest in the Patna Division and smallest in the Presidency, where the most striking feature of the figures is the small proportion of funds spent on original works compared with that spent on maintenance and establishment. Repairs were of the usual character, and do not call for remarks. The Provincial roads transferred to the management of District Boards were on the whole maintained in good condition.

34. The total amount expended by District Boards (except Mozufferpore, for which no figures have been furnished) on the construction and repair of village roads during the year was Rs. 3,68,952. In the case of Burdwan it is explained that the whole of the grant remained unexpended because money had been misspent in past years, and it was therefore thought advisable to defer spending any money on village roads until a system of proper management and supervision could be devised. This explanation cannot, however, be accepted as satisfactory. The views of the Lieutenant-Governor on this subject were fully expressed in last year's Resolution. District Engineers have recently been authorised by an amended rule to look after the working of the road establishments employed under Local Boards; and although it is true that under a lax system the expenditure on village roads by Local Boards is liable to abuse, there ought to be no difficulty in checking any misuse of the funds allotted for this purpose if the roads are properly scheduled and subjected to professional scrutiny.

35. The railway feeder from Haripal to Bhandorbatti, a distance of about six miles in the district of Hooghly, was under construction during the year, and will, it is expected, be soon thrown open to traffic. Another feeder, about two miles in length, from the Grand Trunk Road to the railway station at Galsec, in the Burdwan district, was sanctioned, but owing to delay in land acquisition the work was not commenced.

*Railway feeders.* In Nuddea a small feeder from the Majergram railway station to Majergram village was constructed during the year.

The important feeder road from Gaibanda in the Rungpore district to Hilli station, Northern Bengal State Railway, in the Dinagopore district, was improved by the District Boards of Dinagopore, Bogra, and Rungpore.

In Dacca a railway feeder road connecting the Sripore station with Goshinga, an important market on the Lakhya river, was continued, the outlay amounting to Rs. 2,488. Rajah Rajendra Narain Rai Bahadur, of Bhowal, has given free of cost as much of his land as is required for the road.

The Monghyr District Board undertook during the last year the metalling of the following railway feeder roads:—

- (1) Dhararah to Laheta Road, which forms a feeder of the East Indian Railway Station at Dhararah.
- (2) Beguserai to Garrah Road, which forms a feeder to the Tirhoot State Railway.
- (3) A portion of the Patna Road between Indupore and Burhea Railway Station, which will be a continuation of the Burhea feeder road.

In the district of Bhagulpore an important railway feeder was constructed to join the Rughoopur Station on the Tirhoot State Railway with Simrahi and Panchpararia near the Nepal frontier. The road from Madhepura to Rughoopur is being bridged, and this will bring the sub-divisional head-quarters within 25 miles of the Rughoopur Station.

37. Several proposals for the construction of tramways came under the consideration of District Boards during the year, but no work was actually undertaken. The Howrah-Ampta and Howrah-Sheekballa schemes which are intended to facilitate communication between the districts of Howrah and Hooghly, are now under consideration in the Public Works Department. The Dooars Tramway line, for which the Julpigoree District Board has guaranteed Rs. 4,000 annually until the scheme returns 6 per cent. profit, has been undertaken by Messrs. Octavius Steel and Company. Negotiations were opened by the District Board of Patna with certain engineering firms for the construction of a steam tramway on the line of road between Bukhtearpore and Behar. The construction of steam tramways on the Gaya-Nowada Road in the Gaya district and on the Ganges and Darjeeling Road between Purneah and Kissengunge are also under consideration.

*Tramways.* 39. In many districts expenditure is incurred in the maintenance of water communications as well as roads; but the small items on which money was spent are not of sufficient importance to enumerate in detail.

38. The following particulars are recorded regarding the services of steam river communications which were either subsidised or undertaken by District Boards during the year.

*Steam river service.* The steamer service between Rampore Beaulah and Damukdea has been made a daily one, and the Rajshahye District Board increased the subsidy from Rs. 2,400 to Rs. 4,800 per year. A daily steamer service between Pubna and Kushtea was again established from the middle of June, the Pubna District Board paying a subsidy of Rs. 5,200 per year towards its maintenance. The steam ferry between Naraingunge and Munshigunge was taken over from the Traffic Department of the Eastern Bengal State Railway and managed by the District Board. The ferry was worked at a loss of Rs. 1,284, but it was of great benefit to the public. In Backergunge the daily steamer service between Barisal and Khulna was continued, and was of great advantage to the district throughout the year. The Board paid the usual subsidy of Rs. 500 per mensem, minus certain deductions for late arrivals.

The District Board of Noakholly pays a monthly subsidy of Rs. 200 for a bi-weekly steam service with Barrisal. The Tipperah Board has secured the establishment of a daily steamer service between Gouripura and Naraingunge *via* Satnal, a station on the Goalundo-Naraingunge line. During three months of the year the want of water prevents the steamer proceeding further than Dandkundi, 32 miles by road from Comillah, but two boats are engaged at a monthly cost of Rs. 30 to run between Elliotgunge, 21 miles from Comillah, and the steamer station. A similar boat arrangement has been made at the same cost between Muradnagar and the steamer station. The Board pay a monthly subsidy of Rs. 200 to Messrs. Kilburn and Company for the steam service, and receive Rs. 100 from the Postal Department for the carriage of mails between Daudkandy and Satnal. The Board also subsidised a steam service at Rs. 225 a month between Chandpore and Chandipore, but the company which undertook the work closed it after a short trial, apparently finding it unprofitable.

The Chairman of the Maldah District Board writes:—

"Early in July through communication by water was established with Rajmehal, and a steamer ran to and fro on alternate days, the distance *via* the Kalindri being about 60 miles. This service was furnished by Baboo Nilmony Chowdhuri. Later on in August the ferry steamer *Jack*, which had been put on the ferry at Rajmehal by the farmer, Baboo Seo Sahai Singh, was allowed to continue the crossing to Inaitpore and Sadullapore *via* the Bhagirathi, as the whole country was under water. Sadullapore is about five miles west of English Bazar, and the steamer ran in and out in one day. To Nilmony Chowdhuri a subsidy of Rs. 400 a month was paid, but no payment was made to the ferry farmer for the trip to Sadullapore. The steamer between English Bazar and Rampore Beaulah made three trips in the week from August 1889 to March 1890, and also received a subsidy of Rs. 400 a month from 1st October 1889. At first Nilmony Chowdhuri tried to run this line, but his steamers were too small, and ran so irregularly that no subsidy was granted. In October the India General Steam Navigation Company sent up a splendid steamer, called the *Pirih*, which ran till the river subsided in November. The service, however, was kept up till March by a smaller vessel, and a subsidy of Rs. 400 a month was granted. Since June this year a fine steamer, called the *Trout*, has been plying regularly on alternate days. She is timed on Saturdays to catch the mail boat from Beaulah to Sara, thus enabling Maldah passengers to reach Calcutta next morning."

The Lieutenant-Governor has no doubt that the expenditure incurred by District Boards in establishing or subsidising a river steam service is most judicious and has greatly improved communications.

39. The average percentage of cost of establishment on the total outlay on public works during the year was 16·4. The highest percentage was in Chittagong and the lowest in Mymensingh, the figures being 28·4 and 9·1 respectively.

The establishments are reported to have worked satisfactorily during the year.

40. No loans were contracted during the year under report, but the Lieutenant-Governor has agreed to grant a loan of two lakhs to the District Board of Dinagepore and Rs. 25,000 to the Julpigoree Board for the construction of bridges on district roads, and since the close of the year has signified his intention to sanction a loan of Rs. 80,000 to the Patna District Board to complete the construction of bridges on the roads from Buktearpore to Behar and from Mosourhi to Tabhera. The restriction referred to in last year's resolution, regarding the class of works for which Boards are empowered to borrow from the Local Government, has now been removed by the Government of India, and the Lieutenant-Governor hopes that District Boards will not hesitate to apply to Government for loans on account of well-considered schemes for the permanent improvement of the communications and general sanitary condition of their districts.

41. The following are the observations recorded by the Commissioners in their reports on the working of District and Local Boards during the year.

General Remarks.

Mr. Toynbee, the Officiating Commissioner of Burdwan writes:—

"On the whole, I am of opinion that both the District and Local Boards have done good work during the year. Now that complete sets of rules have been framed, and the routine work has begun to settle down into a groove, I think that the next step to be taken is to gradually withdraw the appointment of official Chairman. I would not at first allow the members of District Boards to elect their own Chairman, but they might nominate them, and

the District Magistrates in forwarding the nomination might report fully of the business and other qualifications of the nominees. The experiment might for the present be tried in Hooghly and Burdwan. If successful, it should be afterwards extended to other districts in this division. In making this recommendation, I do so on the assumption that the principles of local self-government have been finally accepted as the policy of the future, and that every possible step to that end is to be taken which is consistent with caution and a due regard for the interests of the general public."

Mr. Smith, the Commissioner of the Presidency Division, states:—

"The District Boards have, on the whole, worked smoothly and successfully during the year. The members generally have evinced much interest in the proceedings. The average attendance has been generally a little under half, and has in no case been quite half the number. The average is bad in Jessore, where it was but 30·64 per cent. The largest number of meetings was 13 in the 24 Pargunnahs, and the smallest, 6 in Jessore. In considering these points, however, the great distances from which many of the members have to come must not be overlooked, and I do not think the result is on the whole unsatisfactory, though I should be glad to see improvement, especially in Jessore."

Mr. Lewis, the Commissioner of the Rajshahye Division, says:—

"The District Boards on the whole have worked well, but depend a good deal on the official Chairmen. This is less the case in Pubna, where both District and Local Boards show rather more independence."

Mr. Power, the Officiating Commissioner of the Dacca Division, gives the opinion of Mr. Hare, the Chairman of the Dacca District Board, that "the Act has worked without difficulty;" and quotes the remarks of Mr. Savage, the Chairman of the Backergunge District Board, as follows:—

"The several Boards in the district have done good work, and the members have taken a great deal of interest in the transaction of business brought before them. The Local Boards have been able to open out village roads without having to acquire any land for the purpose, and the intercommunications have been much improved. There has been harmony among the members of the Board, and on the whole I am able to report that Local Self-Government tends to be a success in this district."

Mr. Power briefly records his own opinion in the following words:—

"On the whole the year was one of fair progress."

Mr. Lyall, the Commissioner of Chittagong, makes the following report:—

"The Inspector of Local Works detected the second clerk of the Chittagong Board in malpractices in connection with contracts, but the majority of the Board refused to punish him or take any notice of his conduct. In fact the majority made a personal in place of a public matter of it. Such cases must, I fear, occur at times, and there is no remedy. The more prompt settlement of advances requires attention in this district. The money has been properly spent, but the members who supervise the works are slow in rendering accounts."

"In Noakholly the accounts require attention. They were found very carelessly kept at time of audit. The Chairman ascribes the errors to change of staff. Good work was, however, done in the district. The present Chairman has fully grasped the wants of the district, and considerable improvement may be effected next year."

"The Tipperah Board have taken great interest in their work, and are devoting their attention to improvements in a sanitary direction, and to the provision of increased medical aid in outlying parts."

"The Board have reduced their expenditure on middle schools, but this is a point on which all District Boards require watching, else money which should be spent on roads and communications will be spent on education."

Mr. Kemble, Officiating Commissioner of Patna, writes:—

"All the district officers have expressed an opinion that the members of the District Boards have worked satisfactorily on the whole and in harmony with the executive. Much interest is said to have been manifested by all the members of the Boards in all the districts except Chumparan, in respect to which Mr. Blyth writes:—

"The general working of the District Board during the year may be regarded as satisfactory, but all the members did not take that amount of interest which might be expected, and the submission of the monthly accounts was often delayed in consequence of their not being regularly audited by the Finance Committee for the want of the attendance of a sufficient number of members to form a quorum."

"All the District Boards have Standing Committees for the disposal of business. In Patna, Mozufferpore, and Durbhanga especially the members of these Committees are said to have rendered great help to the Boards in auditing accounts, supervising the plans and estimates of the District Engineer, looking after schools, and generally in disposing of the matters laid before them."

"The Local Boards as a rule are said to take but little interest in their work. From Shahabad Mr. Bernard reports that these bodies fail to do full justice to the matters transferred and to the funds allotted to them, some of them leaving large sums unexpended under some heads, especially Sanitation."



"In the Patna district it is reported that the Sudder Local Board showed the greatest amount of activity, and its efforts were in all directions uniformly successful. The other Local Boards did not work well.

"The Local Boards in Mozufferpore held a very few meetings, and the Mozufferpore Local Board is particularly mentioned as being in a distinctly inefficient condition.

"In Durbhanga it is reported that the Somastipur Local Board is energetic, but the Durbhanga and Madhubani Local Boards are much less so.

"I am glad to note that the Magistrate and Collectors bear testimony to the good work done by their Boards. The good work is, however, more of a consultative than an executive nature. In every district one or two men, Native or European, take an interest in one or more special subjects, but few (if any) have time or inclination to look into the working of the Board as a whole, or to control its finances and to enquire into its general efficiency. The consequence is that, as the Chairman is overworked, too much is left to the Secretary. The accounts, especially those of the Local Boards as shown by the reports of the Examiner, are ill-kept and inadequately supervised."

Mr. Quinn, the Officiating Commissioner of Bhagulpore, states:—

"Having only joined the Division in the middle of March, I have but little personal knowledge of the working of the several local bodies during the past year; but it may be gathered from the general tenor of the district reports and statements that the District and Local Boards have on the whole discharged the duties entrusted to them in a satisfactory manner, and that fair progress has been made in the execution of the works under their control. In the Purneah district there was for some time considerable friction between the native members of the District Board and the Engineer, but these differences have been arranged, and here, as in the other districts of the division, harmony generally prevails. There is still of course ample scope for improvement, and among other defects a tendency has been noticed to leave too much of the business of the district body to standing committees, whose conclusions and recommendations are sometimes adopted without due consideration. There is also a disposition in some cases to increase the expenditure on establishments to an unnecessary extent. An instance of this occurred during the past year, when a District Board persisted in raising the pay of some members of their own office establishment and that of the District Engineer on the recommendation of the Finance Committee, though the increase was held to be quite unnecessary by the Commissioner and Inspector of Works, and as regards the District Engineer's establishment was not recommended by that officer himself. In the case in question, I have informed the Board that the total cost of these establishments is already high, and that no increase of the aggregate charges on account of them will be sanctioned in future years in the absence of very convincing reasons. I trust that this declaration may check the further enhancement of individual salaries.

"The Boards have bestowed considerable attention on education, and there has been a general increase in the number both of schools and scholars, including primary schools, of which the Boards are, I think, entitled to share the credit. The relations between the Boards and the Education Department have also been harmonious; but the Inspector complains of delay in the transaction of business, and specially in passing bills, which he attributes to the delegation of executive work of this kind that can be properly performed by the Chairman or Vice-Chairman to Education and Finance Committees which only meet at intervals. There appears to be need of reform in this respect, in effecting which I have expressed my willingness to give any aid in my power."

Mr. Worsley, the Commissioner of Orissa, says:—

"The Local Self-Government Act has been in operation for a comparatively short time, and the system has not had time to develop fully in all departments. Generally speaking, the administration has been satisfactory. In Cuttack, many of the members of the Boards did not take much interest in their work, and the Magistrate and Chairman of the District Board regrets that the work is carried on more as that of a special department of the Magistrate and Collector than as an independent institution as it should be. The Chairman of the Pooree District Board complains that he finds it very difficult to get the monthly accounts audited by the Financial Sub-Committee. This district shows the best results under the heads of "Roads" and "Education." In spite of the prevalence of cholera in the early part of the year, there has been an increase in the number of primary schools and scholars, while the amount expended on village roads shows a marked increase over the allotment of the preceding year. In Balasore the administration was generally successful. The following are the remarks of the Chairman under this head:—

"The general working of all the Boards has been on the whole satisfactory. There has been little or no inclination to faction or obstruction. Private members, perhaps, come less to the fore than at first, but, as a counterpoise to this, they seem more ready to subordinate their own cretches to the public good. I am not equally satisfied with the system under which all the roads, pounds, and elementary education were devolved on the Local Boards. This is probably the best course as regards outlying sub-divisions, but in the Sudder it results in a great want of local supervision by those with whom the responsibility nominally rests. Neither the Chairman of the Sudder Local Board nor the Vice-Chairman can ever find time to visit places lying more than a few miles from head-quarters. Roads certainly, and probably pounds and schools, would have been better looked after if the District Board had been less lavish in parting with its authority."

42. The Lieutenant-Governor's opinion of the working of District Boards in Bengal was fully stated in last year's Resolution, and the events of the past year merely confirm the views then expressed. Their dilatoriness in dealing with accounts and bills is remarked on by several officers, and another blemish noticeable is the occasional tendency of certain Boards towards factious criticism of, and opposition to, professional authority. The Commissioner of Burdwan writes:—"The Inspector of Local Works is always willing to help and advise the District Boards, and his action in this respect is, I think, appreciated by them all except Burdwan, which seems to resent all interference as an unnecessary and covert attack upon their independence." The Ferozepore District Board is said to have given way to a spirit of "ungenerous criticism against the Engineer, an excellent officer, who ought to have been encouraged rather than thwarted." In the Purneah Board there was extreme friction at one time between the members and their District Engineer, and the interposition of Government was necessary before healthy relations could be restored. Such cases must be characterised as blots. If the members of a District Board cannot always agree with their responsible executive advisers, they should at least be willing to credit them with a single-minded desire to advance the condition of the district. But generally speaking Sir Stuart Bayley can say that the record of the year has been a very favourable one. Good work has again been done and all departments show a satisfactory expansion of administration. When many have done so well, it is perhaps invidious to mention names; but the Lieutenant-Governor observes with pleasure the high commendation bestowed on Rai Nolinaksha Bose of Burdwan, Baboo Lolit Mohun Singh of Hooghly, Baboo Brojo Gopal Bagchi of Rajshahy, and Mr. Syed Sharafudeen of Patna, who are all non-official Vice-Chairmen of their District Boards. The Lieutenant-Governor acknowledges also the valuable service rendered by district officers in their capacity as Chairmen of the Boards. It is no small tribute to the ability of these officers as a body that they should have given effect to the policy of Local Self-Government in these Provinces so efficiently and at the same time with so little friction.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

*Secretary to the Government of Bengal.*



THE  
APPENDICES

## APPENDICES.

## FORM No. I.

Statement showing the constitution of Local Boards in Bengal during the year ending 31st March 1890.

Serial No.	NAME OF LOCAL BOARD.	Act under which constituted.	Area in square miles.	Population within the area.	NUMBER OF MEMBERS.								Number of meetings held.	AVERAGE ATTENDANCE AT EACH MEETING.		
					Ex-officio.	Nominated.	Elected.	Total.	Officials.	Non-officials.	Europeans and Municipal.	Natives.		Officials.	Non-officials.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Bardwan	Act III (B.C.) of 1888.	1,230	897,106	1	4	10	15	2	13	...	15	6	6	53	101
2	Raniganj	Ditto	664	273,622	...	4	5	9	1	5	...	6	6	56	322	377
3	Cuttack	Ditto	347	217,427	...	4	8	12	1	11	...	9	6	5	48	51
4	Cuttack	Ditto	428	228,018	...	3	6	9	...	9	...	9	6	5	48	51
5	Bankura	Ditto	1,017	639,916	1	3	8	11	...	10	...	12	7	143	4	543
6	Bishnupore	Ditto	669	303,731	...	3	6	9	...	9	...	9	6	5	38	34
7	Bokro	Ditto	1,080	676,371	...	4	7	11	...	10	...	11	6	18	15	3
8	Bamunpore Hat	Ditto	669	316,627	...	3	6	9	...	9	...	11	6	78	475	...
9	Bahadurpore	Ditto	3,294	1,335,425	...	9	24	33	...	30	...	31	5	4	114	180
10	Chital	Ditto	363	336,076	...	6	12	18	...	15	...	18	7	1	7	8
11	Chital	Ditto	617	474,174	1	6	12	18	...	17	...	18	12	18	523	639
12	Chital	Ditto	840	481,964	3	12	18	30	...	14	...	20	11	73	71	72
13	Chital	Ditto	406	270,323	1	6	12	18	...	13	...	15	11	17	6	617
14	Chital	Ditto	818	338,307	1	6	12	18	...	13	...	15	10	9	67	78
15	Chital	Ditto	421	311,095	...	3	6	9	...	9	...	9	6	5	47	53
16	Chital	Ditto	162	302,331	...	3	6	9	...	9	...	9	6	5	4	5
17	Chital	Ditto	343	323,727	...	3	6	9	...	9	...	9	6	5	4	5
18	Chital	Ditto	417	344,380	...	3	6	9	...	9	...	9	6	5	4	5
19	Chital	Ditto	830	403,828	...	3	6	9	...	9	...	9	6	5	4	5
20	Chital	Ditto	98	22,160	...	3	6	9	...	9	...	9	6	5	4	5
21	Chital	Ditto	12	16,643	...	3	6	9	...	9	...	9	6	5	4	5
22	Chital	Ditto	833	371,153	...	3	6	9	...	9	...	9	6	5	4	5
23	Chital	Ditto	270	227,745	...	3	6	9	...	9	...	9	6	5	4	5
24	Chital	Ditto	630	324,204	2	1	2	3	...	3	...	3	6	5	4	5
25	Chital	Ditto	677	417,983	...	3	6	9	...	9	...	9	6	5	4	5
26	Chital	Ditto	679	300,713	...	3	6	9	...	9	...	9	6	5	4	5
27	Chital	Ditto	633	431,972	...	3	6	9	...	9	...	9	6	5	4	5
28	Chital	Ditto	627	313,162	...	3	6	9	...	9	...	9	6	5	4	5
29	Chital	Ditto	437	324,395	...	3	6	9	...	9	...	9	6	5	4	5
30	Chital	Ditto	681	594,102	...	3	6	9	...	9	...	9	6	5	4	5
31	Chital	Ditto	416	189,534	1	3	6	9	...	9	...	9	6	5	4	5
32	Chital	Ditto	467	317,291	...	3	6	9	...	9	...	9	6	5	4	5
33	Chital	Ditto	423	245,303	...	3	6	9	...	9	...	9	6	5	4	5
34	Chital	Ditto	487	630,444	...	3	6	9	...	9	...	9	6	5	4	5
35	Chital	Ditto	487	323,172	...	3	6	9	...	9	...	9	6	5	4	5
36	Chital	Ditto	643	366,122	...	3	6	9	...	9	...	9	6	5	4	5
37	Chital	Ditto	674	322,582	...	3	6	9	...	9	...	9	6	5	4	5
38	Chital	Ditto	234	107,770	1	3	6	9	...	9	...	9	6	5	4	5
39	Chital	Ditto	667	394,598	...	3	6	9	...	9	...	9	6	5	4	5
40	Chital	Ditto	685	218,207	1	3	6	9	...	9	...	9	6	5	4	5
41	Chital	Ditto	937	579,523	...	3	6	9	...	9	...	9	6	5	4	5
42	Chital	Ditto	605	393,579	...	3	6	9	...	9	...	9	6	5	4	5
43	Chital	Ditto	811	401,419	...	3	6	9	...	9	...	9	6	5	4	5
44	Chital	Ditto	1,118	657,662	...	3	6	9	...	9	...	9	6	5	4	5
45	Chital	Ditto	854	439,444	...	3	6	9	...	9	...	9	6	5	4	5
46	Chital	Ditto	897	531,034	...	3	6	9	...	9	...	9	6	5	4	5
47	Chital	Ditto	780	430,402	...	3	6	9	...	9	...	9	6	5	4	5
48	Chital	Ditto	894	507,081	...	3	6	9	...	9	...	9	6	5	4	5
49	Chital	Ditto	944	676,705	...	3	6	9	...	9	...	9	6	5	4	5
50	Chital	Ditto	944	458,149	...	3	6	9	...	9	...	9	6	5	4	5
51	Chital	Ditto	1,261	621,368	...	3	6	9	...	9	...	9	6	5	4	5
52	Chital	Ditto	640	421,217	...	3	6	9	...	9	...	9	6	5	4	5
53	Chital	Ditto	601	519,417	...	3	6	9	...	9	...	9	6	5	4	5
54	Chital	Ditto	853	610,448	1	3	6	9	...	9	...	9	6	5	4	5
55	Chital	Ditto	674	677,408	1	3	6	9	...	9	...	9	6	5	4	5
56	Chital	Ditto	628	321,488	...	3	6	9	...	9	...	9	6	5	4	5
57	Chital	Ditto	1,331	424,734	1	3	6	9	...	9	...	9	6	5	4	5
58	Chital	Ditto	689	434,102	1	3	6	9	...	9	...	9	6	5	4	5
59	Chital	Ditto	1,006	743,717	1	3	6	9	...	9	...	9	6	5	4	5
60	Chital	Ditto	615	212,230	1	3	6	9	...	9	...	9	6	5	4	5
61	Chital	Ditto	1,220	475,045	2	3	6	9	...	9	...	9	6	5	4	5
62	Chital	Ditto	1,061	757,230	1	3	6	9	...	9	...	9	6	5	4	5
63	Chital	Ditto	1,399	674,840	1	3	6	9	...	9	...	9	6	5	4	5
64	Chital	Ditto	1,843	720,688	...	3	6	9	...	9	...	9	6	5	4	5
65	Chital	Ditto	737	443,617	...	3	6	9	...	9	...	9	6	5	4	5
66	Chital	Ditto	758	613,079	...	3	6	9	...	9	...	9	6	5	4	5
67	Chital	Ditto	1,138	600,034	...	3	6	9	...	9	...	9	6	5	4	5
68	Chital	Ditto	540	284,581	...	3	6	9	...	9	...	9	6	5	4	5
69	Chital	Ditto	607	412,630	...	3	6	9	...	9	...	9	6	5	4	5
70	Chital	Ditto	138	142,880	...	3	6	9	...	9	...	9	6	5	4	5
71	Chital	Ditto	447	301,283	...	3	6	9	...	9	...	9	6	5	4	5
72	Chital	Ditto	758	670,790	...	3	6	9	...	9	...	9	6	5	4	5
73	Chital	Ditto	1,827	730,732	...	3	6	9	...	9	...	9	6	5	4	5
74	Chital	Ditto	1,040	484,498	1	3	6	9	...	9	...	9	6	5	4	5
75	Chital	Ditto	607	340,189	...	3	6	9	...	9	...	9	6	5	4	5
76	Chital	Ditto	1,284	435,011	1	3	6	9	...	9	...	9	6	5	4	5
77	Chital	Ditto	703	467,276	...	3	6	9	...	9	...	9	6	5	4	5
78	Chital	Ditto	841	389,074	...	3	6	9	...	9	...	9	6	5	4	5
79	Chital	Ditto	1,494	484,019	1	3	6	9	...	9	...	9	6	5	4	5
80	Chital	Ditto	1,300	319,806	1	3	6	9	...	9	...	9	6	5	4	5
81	Chital	Ditto	1,542	891,103	2	3	6	9	...	9	...	9	6	5	4	5
82	Chital	Ditto	1,213	592,464	...	3	6	9	...	9	...	9	6	5	4	5
83	Chital	Ditto	764	155,143	1	3	6	9	...	9	...	9	6	5	4	5
84	Chital	Ditto	400	511,150	...	3	6	9	...	9	...	9	6	5	4	5
85	Chital	Ditto	1,188	378,023	...	3	6	9	...	9	...	9	6	5	4	5
86	Chital	Ditto	780	683,023	...	3	6	9	...	9	...	9	6	5	4	5

\* One appointed under section 10.

† Two appointed under section 10.

‡ Includes three meetings held by the new Local Board.

§ Three appointed under section 10.

¶ Of the old Board.

• Do. new Board.

Serial No.	NAME OF LOCAL BOARD.	Act under which constituted.	Area in square miles.	Population within the area.	NUMBER OF MEMBERS.										Number of meetings held.	AVERAGE ATTENDANCE AT EACH MEETING.		
					Ex-officio.	Nominated.	Elected.	Total.	Officials.	Non-officials.	Europeans and Europeans.	Natives.	Officials.	Non-officials.		Total.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
17	Copalgunga ...	Act III (B.O.) of 1885.	771	515,086	2	6	...	6	2	4	2	4	9	...	...	...		
18	Sewra ...	Ditto	849	755,581	1	7	...	8	2	5	4	4	7	...	...	...		
19	Chupra ...	Ditto	969	921,091	2	11	...	13	4	9	10	6	8	...	...	...		
20	Monghyr ...	Ditto	1,360	705,517	1	11	...	12	2	10	2	10	8	...	...	...		
21	Ramganga ...	Ditto	783	535,453	1	11	...	12	1	11	3	8	1	(a) 1	...	...		
22	Jamui ...	Ditto	1,002	545,403	1	11	...	12	1	11	3	12	1	(b) 12	...	...		
23	Ribaulpore ...	Ditto	824	472,889	...	13	...	13	1	12	1	13	1	(c) 13	...	...		
24	Rampole ...	Ditto	1,275	640,874	...	14	...	14	1	13	1	11	1	(d) 12	...	...		
25	Rudrapore ...	Ditto	873	388,038	...	19	...	19	1	18	2	10	1	(e) 10	...	...		
26	Banka ...	Ditto	1,145	420,379	...	12	...	12	1	11	...	13	1	(f) 11	...	...		
27	Arraah ...	Ditto	1,044	401,879	...	13	...	13	...	12	...	18	4	...	...	...		
28	Kishenganga ...	Ditto	1,304	818,809	...	12	...	12	1	11	...	12	4	...	...	...		
29	Purneah ...	Ditto	9,533	800,801	...	12	...	12	...	10	...	6	1	...	...	...		
30	Cuttack ...	Ditto	1,054	614,841	...	18	...	18	4	14	2	14	10	...	...	...		
31	Kendrapara ...	Ditto	1,419	552,383	...	12	...	12	3	9	1	11	8	...	...	...		
32	Jajpore ...	Ditto	1,699	484,308	...	12	...	12	10	2	7	1	10	...	...	...		
33	Bhadrach ...	Ditto	904	428,575	...	9	...	10	3	7	...	10	10	...	...	...		
34	Bala-sore ...	Ditto	1,168	430,448	2	10	...	12	5	7	1	11	9	...	...	...		
35	Roore ...	Ditto	1,530	440,177	1	7	...	8	3	5	...	8	4	...	...	...		
36	Khorda ...	Ditto	648	323,408	...	8	...	8	4	...	...	8	10	...	...	...		
Total			61,519	54,082,712	55	713	485	1,203	183	1,020	97	1,108	785	62	477	569		

(a) Owing to the absence of the Chairman on deputation to Jessor.

(b) Four meetings had to be adjourned for want of a quorum.

(c) Three ditto ditto.

(d) Thirteen meetings were convened. In four of them there was no quorum. One of the meetings held was an adjourned meeting.

(e) Thirteen meetings were held. In two of them there was no quorum.

## Form No. I.

Statement showing the constitution of the District Boards in Bengal during the year ending 31st March 1890.

Serial No.	Name of District Board.	Act under which constituted.	Area in square miles.	Population within the area.	NUMBER OF MEMBERS.									Number of meetings held.	AVERAGE ATTENDANCE AT EACH MEETING.		
					Ex-officio.	Nominated.	Elected.	Total.	Officials.	Non-officials.	Europeans and Europeans.	Natives.	Officials.		Non-officials.	Total.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1	Burdwan ...	III (B.C.) of 1885.	2,089	1,326,727	4	5	9	18	4	13	6	13	17	176	505	741	
2	Bankura ...	Ditto	2,009	801,747	1	6	7	14	3	11	2	12	12	13	47	58	
3	Beerbhoom ...	Ditto	1,754	714,774	2	8	6	16	9	7	9	18	13	144	310	428	
4	Midnapore ...	Ditto	5,079	2,427,391	6	12	18	36	10	26	7	23	10	37	103	141	
5	Bogshy ...	Ditto	1,187	561,910	6	7	13	26	4	22	2	24	9	32	111	143	
6	Howrah ...	Ditto	465	829,043	3	2	5	10	4	7	1	8	10	12	63	55	
7	21. Parganahs ...	Ditto	1,901	1,171,830	6	7	12	25	10	15	2	17	13	84	608	693	
8	Khoolna ...	Ditto	4,429	1,046,065	5	4	8	17	8	14	1	16	9	377	325	233	
9	Buddha ...	Ditto	4,371	1,038,608	5	5	10	21	6	15	5	21	7	285	728	1013	
10	Jessore ...	Ditto	2,862	1,533,210	7	7	12	26	9	17	6	23	4	423	534	703	
11	Meereshabad ...	Ditto	2,058	1,137,118	7	7	10	19	3	16	5	21	7	473	337	735	
12	Dinapore ...	Ditto	4,173	1,501,340	4	17	...	21	10	11	9	19	14	34	27	45	
13	Kaj-lahy ...	Ditto	2,361	1,309,520	3	8	10	21	6	15	7	22	11	57	60	117	
14	Birgapore ...	Ditto	3,324	1,041,064	3	12	15	30	4	26	1	27	9	30	108	138	
15	Bakra ...	Ditto	1,492	721,000	...	15	...	15	5	10	...	15	14	16	49	55	
16	Fulna ...	Ditto	2,447	1,220,035	3	4	8	15	5	10	...	15	14	18	68	84	
17	Jalpaiguri ...	Ditto	2,841	573,586	5	15	...	20	5	15	...	20	7	38	28	66	
18	Durga ...	Ditto	2,791	2,421,54	4	5	14	23	10	13	...	23	9	51	67	103	
19	Kharagpore ...	Ditto	2,220	1,040,340	4	9	12	25	6	19	...	25	16	450	308	1834	
20	Ruckergunge ...	Ditto	5,018	1,070,337	3	9	12	24	6	18	4	22	13	214	602	1245	
21	Myerasingh ...	Ditto	5,242	2,061,180	2	11	12	25	7	18	...	25	8	53	64	95	
22	Tippurah ...	Ditto	5,476	1,054,14	4	8	6	17	5	12	...	17	15	11	516	816	
23	Naokhally ...	Ditto	1,930	616,004	3	3	...	13	5	8	...	13	13	358	380	658	
24	Chitragong ...	Ditto	2,541	1,307,000	7	7	12	26	7	19	7	26	13	495	433	905	
25	Fulna ...	Ditto	2,012	1,050,208	3	7	12	22	5	17	...	22	11	17	102	119	
26	Gyn ...	Ditto	4,850	2,010,070	3	9	10	22	5	17	...	22	17	146	68	84	
27	Ribahad ...	Ditto	4,455	1,944,394	4	8	12	24	7	17	...	24	11	21	84	79	
28	Borthanra ...	Ditto	2,508	2,639,311	5	8	12	25	7	18	...	25	10	6	4	12	
29	Muzaffarpore ...	Ditto	2,037	2,401,374	...	9	9	18	7	11	12	0	9	33	46	79	
30	Sarun ...	Ditto	2,589	2,301,119	7	6	16	29	11	18	14	24	18	32	63	97	
31	Chunporeun ...	Ditto	2,510	1,049,422	4	12	...	16	5	11	10	4	8	34	44	68	
32	Muzaffar ...	Ditto	2,511	1,050,540	3	7	12	22	5	17	...	22	12	33	83	113	
33	Rangpore ...	Ditto	4,239	1,808,270	4	15	30	49	4	30	6	36	11	154	1134	1095	
34	Parguah ...	Ditto	4,570	1,823,270	3	10	12	25	4	20	6	26	16	10	67	113	
35	Maldah ...	Ditto	1,807	603,391	2	10	12	24	4	18	4	22	13	377	261	638	
36	Cuttack ...	Ditto	2,507	1,072,399	4	6	10	21	7	14	6	20	12	375	129	416	
37	Bala-sore ...	Ditto	2,068	925,013	2	8	8	18	10	8	5	13	11	508	297	736	
38	Poore ...	Ditto	2,470	823,091	2	5	8	15	7	8	...	15	11	24	374	517	
	Total ...		109,891	57,156,367	150	310	337	797	213	584	190	611	442	393	610	958	

(a) Includes one special and two adjourned meetings.

(b) Includes two special meetings.

## Statement showing the income of the District

Serial number of District Board.	NAME OF DISTRICT BOARD.	Closing balance of last year.	I.—LAND REVENUE.				VI.—PROVINCIAL RATES.					XII.—IN-TELEST.			XIII.—POST OFFICE.			Total.
			Revenue due to canals.	Sale proceeds of trees, grass, &c.		Total.	Local rate.	Palwari rent.	Village service fund.	Interest on arrear of road cess.	Total.	On education securities.	On dispensary securities.	Total.	Mail cart receipts.	District post (collections.)	Total.	
Burdwan Division.																		
1	Burdwan ...	57,483				1,30,845				1,30,845								
2	Bankura ...	54,723				40,899				40,899								
3	Bachchan ...	74,114				64,919				64,919								
4	Midnapore ...	4,253				1,35,214			1,420	1,37,634								
5	Hogshi ...	51,823				69,013				69,013								
6	Howrah ...	41,514		108	108	41,322				41,322								
	Total	1,9,937		108	108	4,64,439			2,430	4,66,869								
Presidency Division.																		
7	24-Hergunmha ...	55,643		1,844	1,844	1,02,071				1,02,071								
8	Khoulna ...	27,003		87	87	88,078				88,165								
9	Noida ...	21,051				63,373				63,373								
10	Jessore ...	21,024		48	48	82,301				82,349								
11	Moohshabad ...	15,057		747	747	74,379				74,379								
	Total	1,62,102		2,721	2,721	5,62,094				5,62,094								
Rajshahi Division.																		
12	Dinapore ...	47,051		30	30	75,090				75,090								
13	Rajshahi ...	34,444		200	200	73,410				73,610								
14	Kumtore ...	24,150		94	94	1,20,154				1,20,248								
15	Banga ...	65,549		34	34	46,190				46,224								
16	Bahra ...	46,072		17	17	34,816				34,833								
17	Jalpaiguri ...	16,961		104	104	43,553				43,657								
	Total	2,20,085		500	500	3,16,348				3,16,348								
Dacca Division.																		
18	Dacca ...	48,379				64,814			619	65,433								
19	Farrukpore ...	433				44,118				44,551								
20	Hackergunge ...	62,043				65,419				65,419								
21	Mymensingh ...	1,44,131				1,44,799				1,45,300								
	Total	2,55,030				3,80,561			810	3,81,370								
Chittagong Division.																		
22	Tipperah ...	62,680				98,648				98,648								
23	Northally ...	70,436				70,385				70,385								
24	Chittagong ...	1,04,040	9,865		9,865	60,848				69,653								
	Total	2,43,021	9,865		9,865	2,55,480				2,55,480								
Patna Division.																		
25	Patna ...	1,20,460		655	655	1,78,462				1,78,462								
26	Gya ...	25,275				1,07,198				1,07,198								
27	Shahabad ...	78,616		237	237	1,35,216				1,35,453								
28	Burhanpore ...	76,156				1,08,216				1,08,216								
29	Siwanpore ...	5,161		106	106	1,36,546				1,36,652								
30	Baran ...	64,837				1,00,016				1,00,016								
31	Chumpran ...	5,982		93	93	70,356				70,449								
	Total	4,46,615		1,071	1,071	10,56,109				10,56,109								
Rhapulpore Division.																		
32	Monkhyr ...	78,343		306	306	1,24,540				1,24,846								
33	Dhakulpore ...	54,640				1,24,027				1,24,027								
34	Faridpur ...	87,128		1,428	1,428	74,005				75,433								
35	Malda ...	68,364				125,215				125,215								
	Total	3,00,297		1,534	1,534	3,78,298				3,78,298								
Orissa Division.																		
36	Cuttack ...	9,804		190	190	57,674				57,864								
37	Balasore ...	10,051				52,724				52,724								
38	Poornia ...	12,515				81,378				81,378								
	Total	34,370		190	190	1,91,776				1,91,776								
	GRAND TOTAL	18,24,943	9,361	8,500	18,045	34,20,310			3,050	34,23,360								

\* This was credited to the District Fund Account under

## XIX.—EDUCATION.

SCHOOL FUND.			MISCELLANEOUS.			INCOME FROM MISCELLANEOUS.		
Training and special schools.			Hospital and dispensary receipts.			Medicines sold by Civil Surgeons.		
High schools.			Endowment.			Contributions.		
Middle schools.			Sanitary fees and fines.			Other receipts.		
Primary schools.			Total.			Total.		
Total.			Total.			Total.		
Contributions.			Total.			Total.		
Sale proceeds of books.			Total.			Total.		
Miscellaneous.			Total.			Total.		
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POULIC R. L. L.  
TIOGA AND  
PAID.

# ХИМ. МИСЛІ ТА ЧОУТІ

Gross receipts.	WAYS.
Local canal receipts.	TOLSON AND SAVING BANK

XXXI,  
IRVING,  
TICIN,  
MINOR,  
THERS  
AND SAYI  
GATION.





## Statement showing the Expenditure of the District Board.

Serial number.	Name of District Board.	Closing balance of last year.	Total income during the year.	1.—REVENUE AND DRAWBACKS.	2.—POST OFFICE.			3.—ADMINISTRATION.				4.—POLICE.			
				Local rate returns.	District post establishments.	Mail-carriage service.	Total.	GENERAL ESTABLISHMENTS OF LOCAL FUNDS.			CAPITAL-FOUNDED CHARGES.				
								Office establishments.	Office contingencies.	Payment of establishments for offices of accountants, control, and audit.	Total.	Establishments.	Contingencies.	Balance of capital-funded establishments.	
Bardhaman Division.															
1	Burdwan	27,475	2,55,687	.....	.....	.....	.....	4,127	988	1,886	7,001	.....	.....	.....	.....
2	Bankura	24,725	1,44,856	.....	.....	.....	.....	2,229	557	740	3,526	.....	.....	.....	.....
3	Bochali	23,194	1,05,114	.....	.....	.....	.....	2,706	184	390	3,280	50	23	.....	.....
4	Medinipur	4,283	9,38,181	.....	.....	.....	.....	5,402	706	2,871	8,979	180	22	19	.....
5	Hugli	64,826	1,93,459	.....	.....	.....	.....	4,787	457	1,802	6,046	840	8	24	.....
6	Howrah	40,514	82,542	.....	.....	.....	.....	2,483	206	858	3,547	.....	28	.....	.....
Total		1,62,537	10,84,251	.....	.....	.....	.....	21,688	3,077	8,783	33,780	450	105	155	.....
Presidency Division.															
7	24-Pargannas	25,044	2,57,048	.....	.....	.....	.....	4,339	1,611	2,196	7,046	64	37	.....	.....
8	Khondra	27,905	86,534	.....	.....	.....	.....	2,185	806	1,214	4,205	.....	41	.....	.....
9	Nudra	25,023	1,04,733	.....	.....	.....	.....	2,805	1,396	1,743	6,044	300	124	37	.....
10	Jessore	27,374	1,55,993	.....	.....	.....	.....	1,705	2,473	1,081	5,259	840	127	.....	.....
11	Mooredabad	15,437	94,502	.....	.....	.....	.....	9,618	861	1,354	11,833	102	.....	81	.....
Total		1,05,189	7,16,751	.....	.....	.....	.....	17,654	6,077	8,530	32,551	614	441	118	.....
Rajshahi Division.															
12	Dinapore	47,001	1,22,591	.....	.....	.....	.....	2,680	436	1,840	4,956	.....	26	3	.....
13	Rajshahi	20,844	1,14,245	.....	.....	.....	.....	2,013	474	1,490	4,007	134	20	.....	.....
14	Rumranga	20,130	1,19,730	.....	.....	.....	.....	6,442	1,845	2,366	10,654	.....	.....	.....	.....
15	Joypura	50,349	83,674	.....	.....	.....	.....	1,738	572	1,020	3,330	24	.....	.....	.....
16	Patna	44,077	94,701	.....	.....	.....	.....	2,364	808	1,371	4,543	1,096	317	18	.....
17	Jalpaiguri	19,645	1,24,020	.....	.....	.....	.....	1,367	2,047	1,153	4,567	300	160	.....	.....
Total		2,20,000	7,56,060	.....	.....	.....	.....	17,688	5,781	8,943	32,410	1,685	606	41	.....
Dacca Division.															
18	Dacca	48,570	1,44,077	.....	.....	.....	.....	4,705	1,711	1,879	7,095	555	87	36	.....
19	Faridpur	454	1,84,045	.....	.....	.....	.....	2,580	730	833	4,143	.....	.....	.....	.....
20	Bachrangpur	63,962	1,54,620	.....	.....	.....	.....	4,820	553	1,636	6,959	.....	.....	.....	.....
21	Mymensingh	1,48,711	2,46,758	.....	.....	.....	.....	5,061	1,833	3,235	10,129	.....	260	260	.....
Total		2,60,697	4,74,507	.....	.....	.....	.....	17,119	4,065	7,373	24,558	555	407	260	.....
Chittagong Division.															
22	Tippurah	62,880	1,04,288	78	.....	.....	.....	23,036	.....	1,808	4,096	300	167	13	.....
23	Kakhal	70,438	1,21,080	1,824	.....	.....	.....	1,096	233	1,400	2,729	380	106	13	.....
24	Chittagong	1,01,608	1,61,750	.....	.....	.....	.....	5,004	761	2,015	7,780	64	.....	59	.....
Total		2,43,926	5,00,098	1,900	.....	.....	.....	0,736	964	5,107	15,507	714	323	41	.....
Poona Division.															
25	Poona	1,20,480	2,16,098	.....	.....	.....	.....	11,178	1,013	3,080	15,271	24	189	.....	.....
26	Gaya	50,275	2,30,800	.....	.....	.....	.....	11,308	1,404	2,046	15,758	124	311	183	.....
27	Shahabad	78,520	1,53,400	500	.....	.....	.....	7,445	835	2,464	10,744	61	74	.....	.....
28	Burhanpur	74,154	6,12,325	11	.....	.....	.....	6,079	802	5,789	13,670	10	.....	7	.....
29	Masulipatnam	6,161	2,67,664	.....	.....	.....	.....	4,420	685	2,978	7,083	.....	64	.....	.....
30	Sorani	94,977	2,54,909	.....	.....	.....	.....	8,403	1,102	1,400	11,005	5,417	1,096	48	.....
31	Channarayana	3,982	1,20,136	.....	.....	.....	.....	2,598	361	1,554	4,513	4,241	2,300	.....	.....
Total		6,44,610	17,43,660	511	.....	.....	.....	54,515	6,341	17,021	77,533	6,940	6,466	310	.....
Bangalore Division.															
32	Mangalore	78,045	1,53,628	0	.....	.....	.....	4,260	1,416	2,927	8,599	16	83	.....	.....
33	Bhamburda	85,690	1,00,812	.....	.....	.....	.....	3,180	2,018	2,811	7,009	77	155	18	.....
34	Purnea	87,124	1,20,660	.....	.....	.....	.....	3,492	1,304	1,803	6,599	.....	.....	98	.....
35	Maldah	82,364	66,715	.....	.....	.....	.....	7,240	712	1,088	9,040	.....	.....	.....	.....
Total		3,06,223	5,07,104	0	.....	.....	.....	15,272	5,430	7,728	28,257	90	263	116	.....
Orissa Division.															
36	Cuttack	9,884	1,55,844	.....	.....	.....	.....	2,080	940	1,000	4,020	2,301	1,040	.....	.....
37	Bhubaneswar	16,082	78,108	.....	.....	.....	.....	2,080	506	830	3,376	1,383	160	.....	.....
38	Puri	12,713	26,591	.....	.....	.....	.....	2,448	.....	570	3,018	64	.....	.....	.....
Total		28,679	2,60,543	.....	.....	.....	.....	6,608	1,446	2,400	10,414	4,746	1,260	.....	.....
GRAND TOTAL		18,28,441	62,73,403	13,001	.....	.....	.....	1,58,706	23,526	66,446	2,60,233	16,940	7,641	640	.....

## NON-MEDICAL

[illegible]

20.-MUPPIL-  
ANNIATION  
ALUWANNABE  
AND PER-  
BIONS.

## 30.—STATIONERY AND PRINTING

1 cm.

PUBLIC BUILDINGS AND FAIRS.											
Experimental cultivation.											
Horse fairs.											
Cattle fairs.											
Other exhibitions or fairs.											
Total.											
Veterinary charges.											
Bull and stallion charges.											
Botanical and other public gardens.											
Provincial statistics.											
Total.											
Pensions.											
Gratuities.											
Stationery purchased in the country.											
Other stationery.											
Printing.											
Lithography.											



Original Work.			Repairs.			Total.		
Civil buildings.	Communications.	Miscellaneous public improvements.	Civil buildings.	Communications.	Miscellaneous public improvements.	Civil buildings.	Communications.	Miscellaneous public improvements.
18,070	18,070	18,070	1,071	1,071	1,071	1,071	1,071	1,071
13,886	13,886	13,886	1,071	1,071	1,071	1,071	1,071	1,071
1,380	1,380	1,380	1,071	1,071	1,071	1,071	1,071	1,071
21,674	21,674	21,674	1,071	1,071	1,071	1,071	1,071	1,071
18,944	18,944	18,944	1,071	1,071	1,071	1,071	1,071	1,071
2,831	2,831	2,831	1,071	1,071	1,071	1,071	1,071	1,071
6,361	6,361	6,361	1,071	1,071	1,071	1,071	1,071	1,071
15,184	15,184	15,184	1,071	1,071	1,071	1,071	1,071	1,071
4,283	4,283	4,283	1,071	1,071	1,071	1,071	1,071	1,071
2,940	2,940	2,940	1,071	1,071	1,071	1,071	1,071	1,071
2,410	2,410	2,410	1,071	1,071	1,071	1,071	1,071	1,071
37,167	37,167	37,167	1,071	1,071	1,071	1,071	1,071	1,071
15,425	15,425	15,425	1,071	1,071	1,071	1,071	1,071	1,071
40,808	40,808	40,808	1,071	1,071	1,071	1,071	1,071	1,071
20,483	20,483	20,483	1,071	1,071	1,071	1,071	1,071	1,071
40,771	40,771	40,771	1,071	1,071	1,071	1,071	1,071	1,071
8,448	8,448	8,448	1,071	1,071	1,071	1,071	1,071	1,071
85,710	85,710	85,710	1,071	1,071	1,071	1,071	1,071	1,071
2,718	2,718	2,718	1,071	1,071	1,071	1,071	1,071	1,071
1,09,421	1,09,421	1,09,421	1,071	1,071	1,071	1,071	1,071	1,071
2,718	2,718	2,718	1,071	1,071	1,071	1,071	1,071	1,071
26,400	26,400	26,400	1,071	1,071	1,071	1,071	1,071	1,071
23,533	23,533	23,533	1,071	1,071	1,071	1,071	1,071	1,071
1,01,330	1,01,330	1,01,330	1,071	1,071	1,071	1,071	1,071	1,071
2,718	2,718	2,718	1,071	1,071	1,071	1,071	1,071	1,071
5,048	5,048	5,048	1,071	1,071	1,071	1,071	1,071	1,071
1,09,421	1,09,421	1,09,421	1,071	1,071	1,071	1,071	1,071	1,071
2,718	2,718	2,718	1,071	1,071	1,071	1,071	1,071	1,071
26,400	26,400	26,400	1,071	1,071	1,071	1,071	1,071	1,071
23,533	23,533	23,533	1,071	1,071	1,071	1,071	1,071	1,071
1,01,330	1,01,330	1,01,330	1,071	1,071	1,071	1,071	1,071	1,071
2,718	2,718	2,718	1,071	1,071	1,071	1,071	1,071	1,071
5,048	5,048	5,048	1,071	1,071	1,071	1,071	1,071	1,071
1,09,421	1,09,421	1,09,421	1,071	1,071	1,071	1,071	1,071	1,071
2,718	2,718	2,718	1,071	1,071	1,071	1,071	1,071	1,071
26,400	26,400	26,400	1,071	1,071	1,071	1,071	1,071	1,071
23,533	23,533	23,533	1,071</					

III.

Account during the year ending 31st March 1890.

CONTRIBUTIONS.		DEBT.			INTEREST ON DEBT.			BALANCE.				REMARKS.
To other boards.	Total.	Payment of loans.	Deposits and advances.	Total.	On account of last year.	On account of current year.	Total.	Total expenditure.	Deposits.	Actual balance.	Total.	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
100000	100000	100000	6,008	6,008	100000	100000	2,18,115	14,975	65,040	1,80,015		
100000	100000	100000	4,031	4,031	100000	100000	1,00,508	1,345	7,362	8,005		
100000	100000	100000	16,894	16,894	100000	100000	1,00,796	4,882	10,152	22,514		
100000	100000	100000	16,477	16,477	100000	100000	2,30,952	14,067	24,806	48,402		
100000	100000	100000	9,953	9,953	100000	100000	2,14,519		24,740	33,746		
100000	100000	100000	876	876	100000	100000	61,930	883	20,225	50,607		
			50,887	50,887			9,46,839	35,062	2,44,020	2,86,970		
			7,416	7,416			2,83,891	10,006	41,137	52,005		* Transferred from the head "Public works."
			14,045	14,045			1,04,341	4,773	4,325	5,009		
			7,327	7,327			1,17,809	9,077	8,001	15,038		
			7,017	7,017			1,32,780	6,789	23,074	40,457		
			5,793	5,793			1,05,765		10,031	10,031		
			41,397	41,397			7,40,004	31,541	60,706	1,33,249		
			10,854	10,854			1,10,847	6,831	42,904	40,805		
			28,079	28,079			1,26,671	5,463	12,853	10,368		
			28,817	28,817			1,04,800	13,810	37,060	50,570		
			4,063	4,063			77,831	2,809	20,754	42,682		
			8,176	8,176			87,855	0,611	40,312	52,023		† Excludes charges amounting to Rs. 4,051 on account of steamer service.
			9,243	9,243			1,28,404	2,817	6,202	15,100		
			68,014	68,014			7,30,718	42,122	1,65,303	2,37,427		
			16,346	16,346			1,53,808	5,730	54,234	41,302		
			10,835	10,835			80,921		20,003	36,002		
			2,317	2,317			1,46,740	7,808	44,044	54,738		
			12,909	12,909			3,14,697	53,063	67,220	94,150		
			50,217	50,217			7,07,967	61,804	1,75,416	2,30,520		
			610	610			1,34,511	5,333	1,30,273	1,34,005		‡ Includes office contingencies.
			11,874	11,874			1,10,590	0,668	60,411	60,979		§ Includes Rs. 1,722 paid as subside to steamer companies for steamer and boat service.
			27,061	27,061			1,18,114		1,70,217	1,70,217		
			30,646	30,646			3,51,160	11,900	3,39,901	4,01,601		
			8,927	8,927			2,45,416	5,665	23,320	24,004		
			20,608	20,608			2,11,830	7,890	68,845	78,145		
			12,194	12,194			1,72,535	7,353	51,340	23,184		
			1,40,937	1,40,937			6,86,274	11,541	18,560	20,207		
			42,120	42,120			2,07,040	3,603	13,443	17,105		
			40,806	40,806			2,03,352	13,781	64,658	63,424		
			14,849	14,849			1,14,845	500	17,724	18,224		
			2,08,841	2,08,841			18,30,761	40,017	5,10,420	3,51,343		
			7,033	7,033			2,76,310	2,807	43,351	40,139		
			27,330	27,330			1,94,803	12,123	43,550	51,470		
			12,054	12,054			1,32,667	1,807	30,404	29,837		
			3,114	3,114			1,04,119	0,743	36,116	32,663		
			50,183	50,183			0,49,075	19,689	2,01,527	2,34,326		
			6,563	6,563			1,00,780		44,013	44,013		
			153	153			41,777	1,842	24,311	30,053		¶ There was refund of Rs. 644-1.
			6,740	6,740			2,12,477	1,943	89,110	89,001		
			0,28,280	0,28,280			01,72,340	3,47,944	16,82,042	10,80,006		

Statement showing the details of the works undertaken for the improvement of sanitation in the districts of Bengal during the year ending 31st March 1890.

IMPROVEMENT OF WATER-SUPPLY.							IMPROVEMENT OF VILLAGE SITES, &c., INCLUDING REMOVAL OF RANK VEGETATION.				CONSERVANCY OF TOWNS AND VILLAGES.		SANITARY ARRANGEMENTS AT FAIRS AND FESTIVALS.		OTHER OBJECTS CALCULATED TO PROMOTE THE SAFETY, HEALTH, COMFORT, AND CONVENIENCE OF RURAL POPULATION.		REMARKS.				
No.	New wells sunk.		Existing sources of supply repaired or otherwise improved.		Watchmen employed to guard sources of drinking water supply.		Total expenditure.	Village site improvements i.e., laying out streets, drains, &c.		Removal of prickly-pear and rank vegetation.		Names of towns and villages conserved.	Scavenging establishment.		Names of places conserved.	Cost.		Particulars.	Cost.		
	Number of wells.	Cost.	Number and description of works.	Cost.	Sources and number of men employed.	Cost.		Number of villages.	Cost.	Number of villages.	Cost.		Total expenditure.	Number of men and of carts.						Cost.	Arrangements made for the superintendence of these establishments.
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
7.	7	Rs. A. P. 458 4 6	Three old tanks re-excavated and improved.	Rs. A. P. 375 2 0		Rs. 101 5 0	Rs. A. P. 458 4 6		Rs. 101 5 0		Rs. 101 5 0	Rs. 101 5 0		Rs. 101 5 0		Rs. 101 5 0		Rs. A. P. 458 4 6		Cost of vaccinating in a village.	Rs. 10
	8	601 4 6	Two wells improved and re-excavated.	294 0 0		101 5 0	2,000 0 0		101 5 0		101 5 0	101 5 0		101 5 0		101 5 0		101 5 0		Drainage of a small quarter of the Rampore Hat town.	27
				578 0 0																	
			1	341 0 8		101 5 0	941 0 0		101 5 0		101 5 0	101 5 0		101 5 0		101 5 0		101 5 0		Two drainage cuts (northern and southern) which serve the purpose of sanitation by draining the rain-water of the town of Moorshedabad to the Gobra nullah during the rainy season.	700
			Clearing tanks at— Khanpur ... Bhulunghat ... Khadipur ... Kidderpur ...	60 0 0 30 0 0 14 0 8 100 0 0 184 0 0		101 5 0	184 0 0		101 5 0		101 5 0	101 5 0		101 5 0		101 5 0		101 5 0		Clearing jungle at— Thakurgaon ... Balurghat ...	53 16 69
																				Keeping in order the drainage channel from Dinaghpore to Gouripore.	474



[illegible]

**RESOLUTION ON THE ADMINISTRATION REPORT OF THE  
HOWRAH BRIDGE FOR THE YEAR ENDING  
ON THE 31ST MARCH 1890.**

No. 3219 Marine.

GOVERNMENT OF BENGAL—MARINE DEPARTMENT.  
RESOLUTION.

*Dated Calcutta, the 29th November 1890.*

READ—

Administration Report of the Howrah Bridge for the year ending on the 31st March 1890.

Read again—

Public Works (Marine) Proceedings (A) for January 1890, Nos. 1 to 3, being the Administration Report of the Howrah Bridge for 1888-89, together with the Resolution recorded thereon.

The actual receipts and expenditure of the Bridge during the year under review, as compared with those of the previous nine years, are shown in the subjoined statement:—

PARTICULARS.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	1889-90.
<b>RECEIPTS.</b>										
Receipts from Railway traffic	Rs. 1,19,727	Rs. 1,28,085	Rs. 2,01,878	Rs. 4,02,401	Rs. 3,73,210	Rs. 2,60,125	Rs. 3,79,501	Rs. 3,25,050	Rs. 3,60,038	Rs. 2,50,251
Do. local do.	.....	64,000	1,97,853	1,40,740	1,60,087	1,36,801	1,25,900	1,11,513	1,10,030	99,107
Do. interest steamers	57	508	410	482	470	446	937	2,219	1,931	2,032
Receipts from hire of steamer	14	27	132	.....	.....	100	.....	1,641	8,700	6,511
Howrah or Buckland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Interest on Government Securities	32,180	26,500	24,000	42,000	20,783	22,174	22,174	21,000	12,000	11,000
Proportion of rent of Head Office	582	487	528	528	523	527	574	580	552	652
Sale of engines and boilers of steam-ferries Howrah	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,877
Miscellaneous	552	2,000	512	737	640	814	221	948	1,102	203
Proportion of earnings of steamship <i>Helly</i>	14,770	8,615	15,038	9,503	11,707	17,372	11,089	21,641	19,256	15,490
Rent of bridge approach land	2,000	3,014	2,000	1,876	2,011	1,637	.....	.....	.....	.....
<b>Total</b>	<b>1,09,820</b>	<b>2,04,710</b>	<b>4,01,240</b>	<b>5,08,250</b>	<b>5,30,012</b>	<b>4,00,410</b>	<b>5,30,095</b>	<b>4,87,601</b>	<b>4,54,627</b>	<b>3,03,741</b>
<b>EXPENDITURE.</b>										
Interest on loans	7,611	7,850	9,540	43,589	78,000	32,052	64,064	76,070	61,180	64,619
Proportion of salaries—Control	12,828	10,200	10,300	14,800	19,718	11,450	12,618	10,402	10,500	11,000
Salaries	52,719	52,000	52,300	52,510	52,251	51,704	51,554	52,114	52,330	52,664
Working expenses	20,127	42,708	14,050	14,148	16,872	14,770	18,030	11,467	15,801	18,167
Repairs	30,000	62,000	35,000	60,073	29,213	47,000	52,187	34,187	32,412	12,316
Steamer <i>Howrah</i> or <i>Buckland</i>	15,035	15,781	14,670	15,347	15,401	16,070	18,040	14,885	10,040	25,640
Proportion of municipal taxes of officers' quarters, store-yard, and Police quarters and repairs to buildings	3,042	7,922	5,171	5,515	9,900	10,800	5,141	1,400	1,644	1,211
Miscellaneous	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,000
Proportion of establishment, &c., of steamship <i>Helly</i>	11,074	10,500	11,000	12,231	10,835	10,667	11,891	11,200	12,000	10,800
Contribution for overbridge at Howrah	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Repairs	.....	21,000	7,940	2,415	7,500	14,023	2,400	2,074	0,848	.....
Proportion of salary of Traffic Manager	875	4,000	4,500	.....	.....	.....	.....	.....	.....	.....
<b>Total</b>	<b>1,41,771</b>	<b>2,01,241</b>	<b>1,62,807</b>	<b>1,97,021</b>	<b>2,14,923</b>	<b>1,90,300</b>	<b>1,91,721</b>	<b>1,94,545</b>	<b>2,36,162</b>	<b>2,00,919</b>
<b>Net revenue</b>	<b>27,055</b>	<b>90,470</b>	<b>3,07,062</b>	<b>4,11,230</b>	<b>3,15,089</b>	<b>2,70,070</b>	<b>3,44,974</b>	<b>2,91,186</b>	<b>2,20,470</b>	<b>1,02,822</b>
<b>GRAND TOTAL</b>	<b>1,09,820</b>	<b>2,04,710</b>	<b>4,00,299</b>	<b>5,06,256</b>	<b>5,30,012</b>	<b>4,00,410</b>	<b>5,30,095</b>	<b>4,86,687</b>	<b>4,54,627</b>	<b>3,03,741</b>

2. The Committee appointed by the Government in January 1888 to consider the revised scale of tolls and fees which should be levied after the Bridge debt had been paid off, estimated that the annual income of the Bridge, after the abolition of the local tolls and the exemption of rice, grain, pulses, seeds and salt from the payment of the terminal charge, would amount to Rs. 1,57,597. The result of the year, which was the first complete year in which the abolition of the local tolls and the terminal charge on the staples of traffic mentioned had effect, shows that the actual receipts exceeded the estimate of the Committee by Rs. 11,229.

3. The net revenue of the year under review amounted to Rs. 27,055, making with the net revenue of previous years a total net revenue of Rs. 34,27,558.

The following statement shows how this amount has been appropriated:—

	To end of 1888-89, Rs.	In 1889-90, Rs.	Total Rs.
Sinking Fund paid to Government on the Bridge debt	22,41,800	.....	22,41,800
Proportion of Sinking Fund on consolidated loan due to Government for Head Office and officers' quarters paid to Government	10,939	1,099	12,026
Proportion of Sinking Fund on debenture loans set aside with the Trustees of the Commissioners' Debenture Loan Account	14,086	2,162	16,248
Reserve Fund	7,71,978	.....	7,71,978
Pontoon Renewal Fund	.....	48,246	48,246
Contribution for the following new works as detailed in Report for 1884-85:—			
Flat <i>Hourah</i>	20,000		
Reserve Section	8,100		
Tug-steamer <i>Hetty</i>	1,35,842		
Ferry-steamer <i>Buckland</i>	1,23,374		
Police quarters	16,573		
Office machinery and tools for workshop	13,321		
Gearing for drawbridge	891		
Two iron buoy boats for floating fenders	2,424		3,20,235
	33,59,032	51,491	34,10,523
Balance	.....	.....	17,035
Total	.....	.....	34,27,558

4. The Bridge was kept in good order during the year, and the sum of Rs. 48,246 was set aside for expenditure when necessary hereafter in renewing the pontoons.

5. During the year the Commissioners were in communication with the Corporation of Calcutta on the subject of the loan of Rs. 2,00,000 from the Bridge reserve fund to be applied towards meeting the interest on the capital expended on the new Central Road leading from the Bridge to Sealdah. The money had, however, not been paid to the Corporation when the year closed.

6. The Bridge was opened for the passage of vessels on 138 occasions, including 34 special Sunday openings. The following statement shows the number and description of vessels which passed through the opening:—

	1889-90.	1888-89.	1887-88.	1886-87.	1885-86.	1884-85.	1883-84.	1882-83.
Sea-going vessels	363	390	331	296	349	405	400	462
Inland steamers and flats	941	878	809	816	1,102	944	739	634
Steam-tugs	491	468	307	337	400	342	331	408
Port Commissioners' vessels	53	20	46	50	89	50	51	67
Government steamers and flats	18	7	6	10	6	10	.....	.....
Total	1,863	1,741	1,500	1,506	1,949	1,756	1,531	1,587

7. No sea-going vessels collided with the Bridge in passing through the opening, but there were 115 collisions of other vessels, as compared with 91 and 63 during the previous two years. The increase is attributed to the exceptionally strong freshets and eddies of the year under review. Of the 106 cargo and passenger boats which collided with the Bridge, 14 were sunk. One life was lost—that of a man who jumped overboard as his boat was about to collide with the Bridge.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Bridge Commissioners for information.

Ordered also that this Resolution be published in the Supplement to the *Calcutta Gazette* for general information.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, Col., R.E.,  
Secretary to the Government of Bengal.

## Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 29th November 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.																
BENGAL.																			
Western Districts.																			
BURDWAN DIVN.	1 Burdwan Nov. 29, '90	Nil	Weather—bright and cold. All crops as good, and all agricultural operations as advanced, as possible. Prices of common rice :— <table><tr><td>Burdwan</td><td>...</td><td>...</td><td>16½</td></tr><tr><td>Culina</td><td>...</td><td>...</td><td>18</td></tr><tr><td>Cutwa</td><td>...</td><td>...</td><td>18½</td></tr><tr><td>Ranigunge</td><td>...</td><td>...</td><td>17</td></tr></table> } per rupee.	Burdwan	...	...	16½	Culina	...	...	18	Cutwa	...	...	18½	Ranigunge	...	...	17
	Burdwan	...	...	16½															
	Culina	...	...	18															
	Cutwa	...	...	18½															
	Ranigunge	...	...	17															
2 Bankura „ 29, '90	Nil	Weather—seasonable. Prospects of <i>aman</i> rice continue good. Reports from mutual as to extent of damage to <i>rabbi</i> crops by locusts not yet received. Common rice selling at 20 seers per rupee at Sudder and 19 seers at Bissen-pore.																	
3 Birbhum „ 29, '90	Nil	Clear and fine weather. Harvesting of the crops is in progress, and the outturn is a bumper one. Price of coarse rice from 17 to 24½ seers per rupee.																	
4 Midnapur „ 29, '90	Nil	Weather—fine and dry; nights cold. <i>Amun</i> paddy is being reaped with an average outturn of about 12 annas. Young <i>rabbi</i> crops have suffered slightly from a flight of locusts in parts of the Sudder and Ghatal subdivisions. Prices of common rice :— <table><tr><td>Sudder</td><td>...</td><td>...</td><td>16</td></tr><tr><td>Tumlook</td><td>...</td><td>...</td><td>16</td></tr><tr><td>Ghatal</td><td>...</td><td>...</td><td>16</td></tr><tr><td>Contai</td><td>...</td><td>...</td><td>18</td></tr></table> } per rupee.	Sudder	...	...	16	Tumlook	...	...	16	Ghatal	...	...	16	Contai	...	...	18	
Sudder	...	...	16																
Tumlook	...	...	16																
Ghatal	...	...	16																
Contai	...	...	18																
5 Hooghly „ 29, '90	Nil	Cold weather set in, though at times close in the day. Outturn of <i>aman</i> expected to be almost a bumper one. Winter crops are good, but locusts have turned up here and there and are doing slight damage to them. Prices of common rice :— <table><tr><td>Sudder</td><td>...</td><td>...</td><td>18½</td></tr><tr><td>Saranipore</td><td>...</td><td>...</td><td>19½</td></tr><tr><td>Jehanabad</td><td>...</td><td>...</td><td>16½</td></tr></table> } per rupee.	Sudder	...	...	18½	Saranipore	...	...	19½	Jehanabad	...	...	16½					
Sudder	...	...	18½																
Saranipore	...	...	19½																
Jehanabad	...	...	16½																
PRESIDENCY DIVN.	6 Howrah „ 29, '90	Nil	Weather—seasonable. <i>Amun</i> crop is being harvested. Prospect of harvest good. Price of common rice 14 to 14½ seers per rupee.																
	7 24-Pergha Dec. 2, '90	Nil	Weather—seasonable. Prospects of crops good. Harvesting of <i>aman</i> and sowing of winter crops still going on. Another flight of locusts passed over parts of the Butrackpore, Baraset, and Musairhat subdivisions during the week, doing slight damage to the <i>rabbi</i> crops in Baraset. Any damage done elsewhere not yet reported. Prices stationary.																
	8 Naddea Nov. 29, '90	Nil	Weather—seasonable. Harvesting of <i>aman</i> going on. Winter crops doing well.																
	9 Khoolna „ 29, '90	Nil	Weather—seasonable. Harvesting of <i>aman</i> commenced. Prospects favourable except in flooded area.																
	10 Jessore „ 29, '90	Nil	Weather—seasonable. Harvesting of <i>aman</i> going on. <i>Rabbi</i> crops doing well. Locusts appeared in the Narail and Sudder subdivisions and did much damage to the <i>rabbi</i> crops in the latter. Agricultural loans are still being issued where they are urgently needed. Price of rice steady.																
RAJSHAHY DIVN.	11 Moorsheesabad „ 29, '90	Nil	Weather—cool. <i>Amun</i> is being reaped. <i>Rabbi</i> is still being sown. Prospects good.																
	12 Dinagepur „ 29, '90	Nil	Weather—seasonable. Prospects of <i>aman</i> and sugarcane good. <i>Amun</i> expected to be a 16-anna crop. Price of rice as before.																
	13 Rajshahi „ 29, '90	Nil	Fair weather, and nights and evenings rather cold. Harvesting of early <i>aman</i> going on. Condition of <i>ganja</i> plants and sugarcane good. Transplantation of tobacco plants not yet completed. Preparation of land for winter crops in progress.																
	14 Rangpur „ 29, '90	Nil	Clear cold weather. <i>Amun</i> harvest has begun and promises to be a full average one. Tobacco and potatoes coming on well. Sugarcane ripening.																
	15 Bogra „ 29, '90	Nil	Weather—seasonable. State and prospects of crops favourable. Harvesting of winter rice and sugarcane has begun in some places. Common rice selling at 15 seers per rupee.																
	16 Pabna „ 29, '90	Nil	Weather—seasonable. Prospects of standing crops continue good. Mustard and tobacco are still being sown. Prices lower than before.																
	17 Darjeeling „ 29, '90	Nil	Weather—bright. Mornings and evenings cold. In the Terai mustard is in blossom in many places; potatoes, tobacco, and rice doing well. In the Hills <i>khutta</i> has been harvested and <i>marua</i> is being harvested. Prospects good.																
	18 Jalpigore „ 29, '90	Nil	Weather—getting cool. Harvesting of <i>haimant</i> rice commenced in places. Sowing of mustard and tobacco going on. Prices continue stationary.																

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—concluded.			
Eastern Districts.			
Dacca Divn.	19 Dacca Nov. 20, '90	Nil	Weather—seasonable. Harvesting of <i>aman</i> going on. Tobacco and chillies are being planted. Mustard, mung, and <i>maskalai</i> thriving. <i>Khasari</i> and <i>matar</i> are being sown. Fodder is available. Common rice sold at from 13 to 16 seers per rupee.
	20 Ferozpur „ 29, '90	Nil	Weather—seasonable. State of crops fair. Harvesting of <i>aman</i> paddy in progress. Enquiry is being made regarding damage done to the pulses by locusts in the Sudder subdivision. Common rice selling at from 14 to 17 seers per rupee.
	21 Backergunge „ 29, '90	Nil	Weather—cold and seasonable. State and prospects of crops good. Harvesting of <i>aman</i> has commenced. Common rice selling at 13½ seers per rupee.
	22 Mymensingh „ 29, '90	Nil	Weather—almost all the mornings of the week were foggy. Cold season has set in. Prospects of <i>aman</i> paddy generally excellent. Paddy on high lands being reaped. <i>Rubbi</i> sowings not yet over. Coarse new rice sells at 16 seers per rupee.
Chittagong Divn.	23 Chittagong Dec. 2, '90	Nil	Weather—seasonable. Cultivation of vegetable crop continues. Harvesting of early winter rice in progress. State and prospects of <i>aman</i> very good. Prices stationary.
	24 Noakhali Nov. 26, '90	Nil	Weather—seasonable. Reaping of <i>aman</i> going on. <i>Rubbi</i> crops progressing. Prospects good.
	25 Tipperah „ 29, '90	Nil	Weather—cold and sunshiny. <i>Aman</i> paddy is being cut; a full outturn is expected. Cold-weather crops—mustard, chillies, &c.—are being sown.
	26 Chittagong Hill Tracts „ 27, '90	Nil	Weather—seasonable with foggy mornings. Harvesting of cotton continues. Late plough-paddy ripening. Sowing of mustard nearly over. Lands are being ploughed for tobacco and chillies. Common rice being sold at 11 seers 6½ chittacks per rupee.
BENGAL.			
Purba Divn.	27 Patna Nov. 29, '90	Nil	Weather—cool. Paddy being harvested. <i>Rubbi</i> and poppy sowings finished, and prospects continue favourable. Cotton and <i>rahar</i> doing well. Prices of food-grains almost stationary.
	28 Gaya „ 29, '90	Nil	Weather—cool and seasonable. Harvesting of paddy going on. Prospects of <i>rubbi</i> and poppy good. Prices of food-grains stationary.
	29 Shahabad „ 29, '90	Nil	Weather—bright and cool with light west winds. Harvesting of paddy is being pushed on. Prospects of <i>rubbi</i> and opium excellent.
	30 Barbhunga „ 29, '90	Nil	Weather—seasonable. Harvesting of rice going on. <i>Rubbi</i> looks promising. Poppy sowing almost completed and plants reported to be healthy. Tobacco and <i>ajwa</i> doing well. Price of common rice varying from 14 to 15 seers per rupee.
	31 Mungerput „ 29, '90	Nil	Weather—seasonable. Prospects of all crops continue excellent. Weather has been most favourable for the poppy crop.
	32 Saran „ 29, '90	Nil	Weather—seasonable. <i>Rubbi</i> and poppy sowings still going on; prospects excellent. Sugarcane has attained its maturity and pressing will shortly commence.
	33 Champaran „ 29, '90	Nil	Weather—fair and cool. <i>Rubbi</i> sowings have freely germinated, and are coming on well. Harvesting of paddy has commenced; estimated outturn 16 annas.
	34 Monghyr „ 29, '90	Nil	Weather—seasonable. Harvesting of winter rice has commenced in places. <i>Rubbi</i> sowings nearly finished. Early sowings growing well.
Bhagalpur Divn.	35 Bhagalpur „ 29, '90	Nil	Weather—seasonable. All crops doing well. Sowings of linseed are up to average. Rice crop promises to be a bumper one.
	36 Purneah „ 29, '90	Nil	Weather—nights cool; sun still hot in day. <i>Kutki</i> and <i>katki</i> being reaped. State of crops continues good.
	37 Maldah „ 29, '90	Nil	Weather—seasonable. Some of the winter rice is ripe, and the harvest has begun. <i>Katki</i> , mustard, wheat, barley, &c., are thriving very well. Common rice selling at from 13 to 15 seers per rupee.
	38 Sonthal Pergas „ 29, '90	Nil	Weather—seasonable. Rice harvest going on briskly with good outturn. Prospects of spring crops excellent except where damaged by locusts.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
Orissa Div.	39 Cuttack Nov. 29, '90	Nil	Weather—seasonable. Harvesting of <i>laghu sarad</i> continues. Planting of tobacco has just commenced.
	40 Poores „ 27, '90	Nil	Weather—seasonable. Late <i>sarad</i> ripening. <i>Laghu sarad</i> being harvested. Miscellaneous crops doing well. Price of common rice 21 to 27 seers per rupee.
	41 Balasore „ 29, '90	Nil	Weather—seasonable. Winter rice being harvested. <i>Rubbi</i> crops promise well in the Bhudruck subdivision.
CHOTA NAGPORE.			
South-West Frontier Agency.			
Chota Nagpore Div.	42 Hasaribagh Nov. 29, '90	Nil	Weather—clear and cold. Harvesting of winter rice continues; outturn 16 annas almost everywhere expected. <i>Rubbi</i> crops doing well. Poppy sowings completed; prospect seems to be good.
	43 Lohardugga „ 29, '90	Nil	Weather—seasonable. Rain is badly wanted for <i>rubbi</i> . Harvesting of winter rice is being carried on vigorously.
	44 Singbhoom „ 29, '90	Nil	Weather—seasonable. Harvesting of rice continues with a splendid outturn everywhere. <i>Rubbi</i> crops favourably reported on from all quarters. Price of rice stationary.
	45 Manbhoom „ 29, '90	Nil	Weather—seasonable. Harvesting of paddy continues vigorously. Outturn of <i>jarin</i> <i>tasar</i> good. Rice selling at from 20 to 25 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,  
The 2nd December, 1890.

P. NOLAN,  
Secy. to the Govt. of Bengal.

## Results of the Meteorological Observations taken at the Alipore Observatory from 23rd to 29th November 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	Weather.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
Nov.	23rd	132.3	9.0	30.083	71.0	79.4	18.1	61.3	85.7	0.563	82.4	76	NNE and calm	59	Nil	Chiefly clear.
"	24th	133.3	8.4	084	69.7	75.4	18.1	60.3	84.2	530	80.8	74	N by E, NNW and calm.	60	"	Chiefly clear.
"	25th	132.0	5.6	044	65.0	77.0	17.3	59.7	83.6	580	80.0	79	NNE and calm	34	"	Partially cloudy.
"	26th	131.6	9.6	021	68.0	77.8	20.0	57.8	83.1	614	59.7	76	N and calm	24	"	Chiefly clear.
"	27th	134.5	9.6	015	68.0	78.7	20.4	58.9	82.8	604	59.2	74	NNW and calm	23	"	Clear.
"	28th	131.1	8.7	033	67.1	77.3	19.2	58.1	82.8	613	59.0	79	NNE and calm	37	"	Chiefly clear.
"	29th	132.4	9.2	052	67.7	77.7	19.6	58.2	83.6	635	60.8	79	NNE and calm	27	"	Clear.

The mean pressure of the seven days ... 30.045  
 The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 30.002

The total number of hours of bright sunshine ... 60.0  
 The maximum possible number of hours of sunshine ... 76.2

The mean temperature of the seven days ... 68.5  
 The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 71.5  
 The extreme variation of temperature ... 21.6  
 The maximum temperature ... 79.4

The highest velocity of the wind in one hour ... 8

The highest pressure of wind on one square foot ... ?

The mean relative humidity ... 77

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 71

The total fall of rain from 23rd to 29th November 1890 ... Nil

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 0.01

The total fall from 1st January to 29th November 1890 ... 61.25

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 65.15

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

d. dew, = fog.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 1st December 1890.



## Meteorological Report of the Province of Bengal

District.		Representative station.	STATION OBSERVATIONS.												
			AIR PRESSURE.			WIND.		TEMPERATURE.							
			Mean barometric height, 9 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Mean.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.
OCEANIC DISTRICTS.	Pooree	Pooree	30.101	30.114	—	NNW	145	83.2	23rd Nov.	82.8	26-28 Nov.	81.3	83.0	78.5	—
	Gopalpore	Gopalpore	30.101	30.118	+0.02	NNW	143	81.2	24th	80.9	27, 28	80.4	83.0	71.7	-1.1
	Pala Point	Pala Point	30.085	30.118	+0.07	NNW	147	81.4	23rd	80.5	28th	79.9	83.8	69.4	-5.3
	Outback	Outback	30.054	30.139	+0.08	Calm	—	81.3	21st	80.9	27, 28	83.2	81.2	71.2	-1.7
SOUTH-WEST BENGAL.	Raisore	Raisore	30.082	30.144	+0.02	Northerly & Calm	81†	82.4	21, 23	80.6	28	8	87.8	69.3	-0.3
	South-West Midnapore	Ranger Island	30.095	30.122	+0.03	NNE	219	80.2	23, 24	80.4	27	—	82.3	70.6	+0.1
	Midnapore	Midnapore	30.078	30.137	+0.06	N	190	83.3	25, 26	80.2	27	4	80.2	70.9	+0.8
	24-Pergunnahs (lower & Hooghly)	Calcutta	30.103	30.126	+0.07	Calm	34	80.5	22nd	80.8	24th	78.8	80.0	69.2	-1.4
SOUTH-WEST BENGAL.	Burdwan	Burdwan	30.040	30.146	+0.09	N	41	84.5	23rd	80.9	27th	81.0	81.1	71.1	+0.1
	Bancoora	Bancoora	30.008	30.138	+0.08	W	65	83.1	23, 25	80.3	28th	80.9	83.3	69.3	-1.0
	Barrackpore	Barrackpore	30.045	30.157	+0.04	North-Western	47	7	23, 24	80.1	28th	80.0	83.1	69.4	-0.9
	West Burdwan	Baranagar	30.030	30.126	+0.01	North-Western	40	80.0	22, 23	80.2	26-28	79.9	81.3	70.3	-0.4
SOUTH-WEST BENGAL.	Moorsheadabad	Baranagar	30.075	30.126	+0.07	North-Western	63	82.3	24th	81.0	27th	81.0	87.9	69.8	-1.4
	Rudra	Krishnagar	30.084	30.110	+0.07	Northerly	9	81.7	23, 24	80.5	29-28	81.1	80.4	70.9	-1.7
	Jessore	Jessore	30.084	30.110	+0.07	Calm	9	81.7	23, 24	80.5	29-28	81.1	80.4	70.9	-1.7
	Khoolna	Khoolna	30.084	30.110	+0.07	Calm	9	81.7	23, 24	80.5	29-28	81.1	80.4	70.9	-1.7
SOUTH-WEST BENGAL.	Chittagong	Chittagong	30.000	30.100	+0.05	NW	—	81.9	22nd	—	—	81.0	—	—	—
	Chittagong Hill Tracts	Dumagati	—	—	—	—	—	Observations not received.							
	Bachrangpur	Bachrangpur	30.076	30.091	+0.04	Calm	31	81.8	22nd Nov.	80.1	25, 27	70.8	80.7	70.8	-1.1
	Nankholy	Nankholy	30.057	30.103	+0.09	N	66	83.0	23th	80.0	25, 26	81.4	80.4	70.4	-0.7
SOUTH-WEST BENGAL.	Puttendrapore	Puttendrapore	30.080	30.121	+0.01	Calm	23	80.0	23rd	80.0	26th	77.0	80.2	69.3	-1.3
	Dacca	Dacca	30.071	30.094	+0.01	North-Easterly	40	80.1	22nd	80.8	27th	81.8	80.0	71.4	-1.4
	Comilla	Comilla	30.066	30.093	+0.07	N	11	80.4	22 & 23	80.5	27th	82.0	80.6	70.3	-0.4
	Mymensingh	Mymensingh	30.032	30.114	+0.02	Easterly	28	80.0	23rd	80.5	28th	79.9	80.1	69.0	-2.0
SOUTH-WEST BENGAL.	Bogra	Bogra	30.036	30.096	+0.04	NE	18	80.8	23rd	80.4	27th	79.4	80.4	68.0	-2.3
	Pabna	Pabna	30.061	30.110	+0.07	NE & N	19	81.0	23rd	80.0	28th	80.0	87.6	69.0	-1.4
	Rajshahye	Rajshahye	30.045	30.117	+0.06	N	73	80.1	24th	80.6	28th	78.9	80.6	69.3	+0.3
	Malda	Malda	30.054	30.139	—	Northerly	82	81.2	28th	80.3	27, 28	79.6	83.4	69.1	—
SOUTH-WEST BENGAL.	Dinapore	Dinapore	30.090	30.134	+0.03	NE	†	81.1	22nd	80.2	28th	79.8	87.0	68.7	-0.1
	Bungpore	Bungpore	†	†	†	NNE	†	81.4	22nd	80.4	28th	79.7	87.0	68.7	+0.1
	Jalpaiguri	Jalpaiguri	30.040	30.144	+0.04	†	†	80.4	24th	80.3	24th	80.3	86.0	68.2	-0.7
	Cooh Behar	Cooh Behar	30.040	30.144	+0.04	†	†	80.4	24th	80.3	24th	80.3	86.0	68.2	-0.7
SOUTH-WEST BENGAL.	Darjeeling Hill Tracts	Darjeeling	30.116	—	+0.07	Variable	66	80.0	27th	78.7	29 & 30	81.1	82.0	69.1	+1.3
	Purneah	Purneah	30.008	30.118	+0.04	Calm	18	80.3	22nd	80.3	25 & 27	78.6	85.4	67.0	-4.7
	Mozufferpore	Mozufferpore	†	†	—	Calm	33	79.9	22nd	80.3	28th	79.3	80.7	69.5	—
	Durghanga	Durghanga	30.078	30.144	+0.06	Calm	28	80.0	22nd	80.5	24-26	80.1	87.8	69.0	0
SOUTH-WEST BENGAL.	Uttarpara	Uttarpara	30.030	30.140	+0.04	WSW	40	81.2	22nd	81.0	25 & 27	80.0	83.1	69.0	-0.7
	Baran	Baran	30.048	30.133	+0.03	Calm	12	79.8	23 to 24	80.0	25 & 26	79.3	82.1	70.7	+1.1
	Debra	Debra	30.085	30.181	+0.03	SW	17	82.3	22nd	80.0	27, 28	80.0	84.8	67.8	+1.7
	Shahabad	Shahabad	†	†	†	Variable	40	80.0	24th	81.0	28th	79.1	85.4	67.8	0
SOUTH-WEST BENGAL.	Arrah	Arrah	30.043	30.144	+0.07	Variable	3	81.1	23rd	80.0	28th	80.3	85.0	67.0	+0.3
	Gya	Gya	30.070	30.171	+0.07	†	110	81.9	22nd	80.4	24th	80.7	86.8	68.0	+1.2
	Patna	Patna	30.071	30.183	+0.04	Calm	30	79.7	22nd	80.4	28th	79.3	86.3	68.7	+1.7
	North Bhagalpur	Bhagalpur	30.071	30.141	+0.07	Calm	9	81.3	22nd	80.5	24th	79.7	86.3	68.1	+0.9
SOUTH-WEST BENGAL.	North Bhagalpur	Dumra	30.018	30.146	+0.07	NW	57	80.0	22, 23	80.1	25th	79.3	86.1	67.7	-0.3
	Baranagar	Baranagar	30.081	30.171	+0.06	Calm	81	77.9	22nd	80.2	26th	76.0	84.8	68.4	+0.3
	Chandpur	Chandpur	30.048	30.153	+0.03	Calm	76	79.4	25th	81.0	28th	76.0	83.4	65.1	+1.3
	Chandpur	Chandpur	30.048	30.153	+0.03	Calm	76	79.4	25th	81.0	28th	76.0	83.4	65.1	+1.3

\* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetic average or means of the readings during the same period for the years 1871-1880. The humidity of the atmosphere is expressed as percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number of rainy days is the number of days in which the rainfall is at least 0.01 inch. The number of days in which the rainfall is at least 0.01 inch is denoted by 1. The number of days in which the rainfall is at least 0.01 inch is denoted by 1. The number of days in which the rainfall is at least 0.01 inch is denoted by 1.

the week ending Friday, the 28th of November 1890.

				DISTRICT OBSERVATIONS.													
				RAINFALL.													
				Since 1st of month.			Since 15th May 1890.										
				Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.	Representative station.		DISTRICT.			
OF WEEK.																	
Mean for district.				Normal mean.													
Normal mean.																	
Variation.																	
Average number of rainy days.																	
Normal number of rainy days.																	
17	4.3	Nil	Nil	0.13	1.82	2.13	-0.31	65.77	54.40	+11.37	0.0	0.3	Pooros	Pooros	Chama.		
18	1.0	Nil	Nil	0.13	1.82	2.13	-0.31	65.77	54.40	+11.37	0.0	0.3	Gopalpore	Gopalpore	Chama.		
19	4.7	Nil	Nil	0.13	1.82	2.13	-0.31	65.77	54.40	+11.37	0.0	0.3	False Point	False Point	Chama.		
20	3.9	Nil	Nil	0.13	1.82	2.13	-0.31	65.77	54.40	+11.37	0.0	0.3	Outback	Outback	Chama.		
21	0.4	Nil	Nil	0.11	0.67	0.67	0	61.23	62.61	-1.38	0.0	0.3	Balasore	Balasore	Chama.		
22	4.6	Nil	Nil	0.03	0.54	0.60	+0.06	65.29	61.60	+3.69	0.0	0.1	Sensor Island	South West Midnapore	South-West Bengal.		
23	0.9	Nil	Nil	0.03	Nil	0.20	-0.20	50.00	50.00	0	0.0	0.1	Midnapore	Midnapore	South-West Bengal.		
24	1.3	Nil	Nil	0.04	0.07	0.31	-0.24	55.15	50.27	+4.88	0.0	0.1	Calcutta	Calcutta	South-West Bengal.		
25	1.1	Nil	Nil	0.01	0.25	0.31	-0.06	61.41	40.13	+21.28	0.0	0.1	Bardwan	Bardwan	South-West Bengal.		
26	0.7	Nil	Nil	0.04	0.01	0.46	-0.45	53.92	51.21	+2.71	0.0	0.1	Bankura	Bankura	South-West Bengal.		
27	0	Nil	Nil	Nil	0.35	0.14	+0.21	63.93	51.59	+12.34	0.0	0.0	Baerghunga	Baerghunga	South-West Bengal.		
28	1.4	Nil	Nil	0.01	0.33	0.23	+0.10	60.33	44.29	+16.04	0.0	0.1	Herchamper	Moorshedabad	South-West Bengal.		
29	1.2	Nil	Nil	0.03	0.04	0.33	-0.29	65.65	45.63	+20.02	0.0	0.1	Krishnachar	Nuddea	South-West Bengal.		
30	2.5	Nil	Nil	0.05	0.06	0.39	-0.33	53.61	52.60	+1.01	0.0	0.1	Jessore	Jessore	South-West Bengal.		
31	5.0	Nil	Nil	0.30	1.37	2.15	-0.78	119.01	112.35	+6.66	0.0	0.3	Chittagong	Chittagong	South-West Bengal.		
32	0.40	Nil	Nil	0.42	2.00	1.98	+0.02	73.32	73.77	-0.45	0.0	0.3	Dumagiri	Chittagong Hill Tracts	South-West Bengal.		
33	1.1	Nil	Nil	0.21	Nil	1.32	-1.32	69.16	75.77	-6.61	0.0	0.3	Barrisal	Baerghunga	South-West Bengal.		
34	0	Nil	Nil	0.53	Nil	2.65	-2.65	67.94	165.71	-97.77	0.0	0.3	Noakholly	Noakholly	South-West Bengal.		
35	0.7	Nil	Nil	0.12	Nil	0.22	-0.22	45.42	54.91	-9.49	0.0	0.1	Farrukhpore	Farrukhpore	South-West Bengal.		
36	2.4	Nil	Nil	0.18	Nil	0.76	-0.76	55.19	50.63	+4.56	0.0	0.1	Dacca	Dacca	South-West Bengal.		
37	1.3	Nil	Nil	0.14	Nil	0.72	-0.72	60.11	67.67	-7.56	0.0	0.1	Comanilla	Tipperah	South-West Bengal.		
38	1.7	Nil	Nil	0.02	0.17	0.21	-0.13	75.25	68.30	+6.95	0.0	0.1	Mymensingh	Mymensingh	South-West Bengal.		
39	0	Nil	Nil	0.03	0.41	0.34	+0.07	78.21	50.90	+27.31	0.0	0.1	Bogra	Bogra	South-West Bengal.		
40	0.3	Nil	Nil	0.03	0.27	0.27	+0.00	54.95	52.80	+2.15	0.0	0.0	Serajunga	Patna	South-West Bengal.		
41	0.3	Nil	Nil	0.03	0.10	0.10	+0.00	75.66	63.81	+11.85	0.0	0.0	Kamrup	Rajshahi	South-West Bengal.		
42	0	Nil	Nil	0.01	0.02	0.10	-0.17	62.14	53.09	+9.05	0.0	0.1	Maldah	Maldah	South-West Bengal.		
43	0	Nil	Nil	0.03	Nil	0.10	-0.10	8.74	50.25	+41.51	0.0	0.1	Dinagopore	Dinagopore	South-West Bengal.		
44	0.3	Nil	Nil	0.01	Nil	0.09	-0.09	100.61	74.18	+26.43	0.0	0.1	Bangpore	Bangpore	South-West Bengal.		
45	0	Nil	Nil	0.02	Nil	0.06	-0.06	164.21	160.59	+3.62	0.0	0.1	Jalpaigore	Jalpaigore	South-West Bengal.		
46	0.7	Nil	Nil	0.04	0.07	0.24	-0.24	105.03	116.66	-11.63	0.0	0.1	Darjeeling	Darjeeling Hill Tracts	South-West Bengal.		
47	0	Nil	Nil	0.03	Nil	0.06	-0.06	80.67	50.63	+30.04	0.0	0.1	Purnea	Purnea	South-West Bengal.		
48	0	Nil	Nil	0.03	Nil	0.09	-0.09	55.07	42.70	+12.37	0.0	0.1	Moukshapore	Moukshapore	South-West Bengal.		
49	0	Nil	Nil	0.03	Nil	0.08	-0.08	57.65	43.98	+13.67	0.0	0.1	Darbhanga	Darbhanga	South-West Bengal.		
50	1.0	Nil	Nil	Nil	Nil	0.01	-0.01	68.47	48.50	+19.97	0.0	0.0	Motihari	Chumpanan	South-West Bengal.		
51	0	Nil	Nil	0.10	Nil	0.10	-0.10	63.40	41.66	+21.74	0.0	0.2	Chupra	Saran	South-West Bengal.		
52	0.3	Nil	Nil	0.01	Nil	0.26	-0.26	40.69	59.53	-18.84	0.0	0.3	Dehra	Shahabad	South-West Bengal.		
53	1.4	Nil	Nil	0.31	Nil	0.26	-0.26	40.69	59.53	-18.84	0.0	0.3	Buxar	Buxar	South-West Bengal.		
54	0.6	Nil	Nil	0.10	Nil	0.34	-0.34	53.93	40.61	+13.32	0.0	0.2	Gya	Gya	South-West Bengal.		
55	0	Nil	Nil	0.03	Nil	0.20	-0.20	42.10	40.61	+1.49	0.0	0.1	Ballia	Patna	South-West Bengal.		
56	0	Nil	Nil	0.03	Nil	0.22	-0.22	52.24	42.54	+9.70	0.0	0.1	Shahpore	South Shahpore	South-West Bengal.		
57	0	Nil	Nil	0.03	Nil	0.13	-0.13	63.03	50.33	+12.70	0.0	0.1	Unnao	Unnao	South-West Bengal.		
58	0	Nil	Nil	0.11	0.01	0.38	-0.38	40.45	40.20	+0.25	0.0	0.2	Amritnagar	Amritnagar	South-West Bengal.		
59	0	Nil	Nil	0.17	Nil	0.46	-0.46	47.01	47.30	-0.29	0.0	0.3	Baran	Baran	South-West Bengal.		
60	0	Nil	Nil	0.10	Nil	0.17	-0.17	61.35	40.21	+21.14	0.0	0.0	Baran	Baran	South-West Bengal.		
61	0	Nil	Nil	0.23	Nil	0.23	-0.23	53.96	50.47	+3.49	0.0	0.0	Gyaspore	Gyaspore	South-West Bengal.		

The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.

The average cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observation of rainfall the normal means are given. The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the sub-divisional stations.

## Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of November 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of May 1890.	Average rain-fall from 1st of May to date.
			Saturday 2nd November.	Sunday 3rd November.	Monday 4th November.	Tuesday 5th November.	Wednesday 6th November.	Thursday 7th November.	Friday 8th November.	Number of rainy days.	Ratio of week.				
NORTH-WEST BENGAL.	POOREE	Poorer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	1.85	60.97	40.75
		Khurda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	1.43	65.14	50.28
		Bampur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	2.03	64.95	49.21
		Vala Point	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	2.15	64.10	52.11
		Salpara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	2.98	65.07	51.71
		Pipli	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.29	75.00	51.71
	OUTBACK	Jagatsinghpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	1.01	65.67	46.74
		Banki	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	2.23	65.09	47.91
		Outback	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	1.04	65.16	51.41
		Kendrapara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.59	65.16	52.14
		Jajpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.44	65.16	52.14
		Dharmasala	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.10	65.16	52.14
NORTH-WEST BENGAL.	BALASORE	Chandhall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	1.43	62.08	43.28
		Bhuddamoh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.88	67.85	51.05
		Borah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.70	60.84	40.81
		Balasore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.70	61.23	50.88
		Jailasore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	1.21	63.83	51.07
		Baripada	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.01	63.81	53.48
	MIDNAPORE	Contai	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	4.83	67.73	60.54
		Rangor Island	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	1.44	69.05	60.54
		Tumlook	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.31	67.94	50.89
		Midnapore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	4.23	67.47	57.95
		Chital	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.07	64.01	53.28
		Kakradia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.07	60.23	53.28
NORTH-WEST BENGAL.	24-Pergunnas	Diamond Harbour	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.35	61.18	57.46
		Canning Town	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.35	61.18	57.46
		Alipore Jail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.35	61.18	57.46
		Barrackpore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.47	60.01	57.35
		Dum-Dum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.21	61.34	50.70
		Karakat	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.31	64.35	49.18
	HOWRAH	Howrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.36	63.67	64.92
		Howrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.36	63.67	64.92
		Howrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.36	63.67	64.92
		Howrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.36	63.67	64.92
		Howrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.36	63.67	64.92
		Howrah	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.36	63.67	64.92
NORTH-WEST BENGAL.	HOOGHY	Hooghly	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.19	61.30	60.10
		Hooghly	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.19	61.30	60.10
		Hooghly	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.19	61.30	60.10
		Hooghly	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.19	61.30	60.10
		Hooghly	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.19	61.30	60.10
		Hooghly	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.19	61.30	60.10
NORTH-WEST BENGAL.	KURDWA	Curia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.37	64.51	47.53
		Kurdwa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.37	64.51	47.53
		Kurdwa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.37	64.51	47.53
		Kurdwa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.37	64.51	47.53
		Kurdwa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.37	64.51	47.53
		Kurdwa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.37	64.51	47.53
NORTH-WEST BENGAL.	BANKPORE	Bankpoore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.21	57.78	50.70
		Bankpoore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.21	57.78	50.70
		Bankpoore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.21	57.78	50.70
		Bankpoore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.21	57.78	50.70
		Bankpoore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.21	57.78	50.70
		Bankpoore	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.21	57.78	50.70
NORTH-WEST BENGAL.	KOLKATA	Kolkata	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.11	63.26	53.16
		Kolkata	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.11	63.26	53.16
		Kolkata	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.11	63.26	53.16
		Kolkata	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.11	63.26	53.16
		Kolkata	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.11	63.26	53.16
		Kolkata	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.11	63.26	53.16
NORTH-WEST BENGAL.	NADODA	Nadoda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.29	63.46	46.32
		Nadoda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.29	63.46	46.32
		Nadoda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.29	63.46	46.32
		Nadoda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.29	63.46	46.32
		Nadoda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.29	63.46	46.32
		Nadoda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.29	63.46	46.32
NORTH-WEST BENGAL.	CHITTAGONG	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.39	67.01	50.18
		Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.39	67.01	50.18
		Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.39	67.01	50.18
		Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.39	67.01	50.18
		Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.39	67.01	50.18
		Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.39	67.01	50.18
NORTH-WEST BENGAL.	MADRAS	Madras	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.30	64.80	40.81
		Madras	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.30	64.80	40.81
		Madras	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.30	64.80	40.81
		Madras	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.30	64.80	40.81
		Madras	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.30	64.80	40.81
		Madras	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.30	64.80	40.81
NORTH-WEST BENGAL.	CHITTAGONG	Chittagong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.30	64.80	40.81</

[illegible]

## Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of November 1890—

Meteorological Division.	District.	Station.	RAINFALL.							Total.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of May 1890.	Average rain-fall from 1st of May.
			Saturday, 22nd November.	Sunday, 23rd November.	Monday, 24th November.	Tuesday, 25th November.	Wednesday, 26th November.	Thursday, 27th November.	Friday, 28th November.	Number of rainy days.	of Rainfall week.				
NORTH BHAR (Muzaffarpur...)	—concluded.	Motihari	...	...	...	...	...	...	...	...	...	...	0.01	72.00	...
		...	...	...	...	...	...	...	...	...	...	...	0.01	64.50	...
SOUTH BHAR	Bhahabad	Gopalgunge	...	...	...	...	...	...	...	...	...	...	0.14	52.77	...
		...	...	...	...	...	...	...	...	...	...	...	0.12	52.84	...
SOUTH BHAR	Gya	Aurungabad	...	...	...	...	...	...	...	...	...	...	0.22	59.40	...
		...	...	...	...	...	...	...	...	...	...	...	0.27	60.06	...
SOUTH BHAR	Patna	Patna	...	...	...	...	...	...	...	...	...	...	0.13	50.02	...
		...	...	...	...	...	...	...	...	...	...	...	0.13	52.13	...
SOUTH BHAR	Monghyr	Bemouval	...	...	...	...	...	...	...	...	...	...	0.32	44.22	...
		...	...	...	...	...	...	...	...	...	...	...	0.13	51.34	...
SOUTH BHAR	South Bhagui-pore	Bhagui-pore	...	...	...	...	...	...	...	...	...	...	0.30	50.77	...
		...	...	...	...	...	...	...	...	...	...	...	0.13	42.11	...
SOUTH BHAR	South Per-gunnah.	Rajmehar	...	...	...	...	...	...	...	...	...	...	0.13	55.30	...
		...	...	...	...	...	...	...	...	...	...	...	0.10	50.73	...
SOUTH BHAR	Humbhagh...	Humbhagh	...	...	...	...	...	...	...	...	...	...	0.01	55.30	...
		...	...	...	...	...	...	...	...	...	...	...	0.03	49.97	...
SOUTH BHAR	Lohardugga...	Lohardugga	...	...	...	...	...	...	...	...	...	...	0.46	53.19	...
		...	...	...	...	...	...	...	...	...	...	...	0.40	42.57	...
SOUTH BHAR	Sarghoom	Sarghoom	...	...	...	...	...	...	...	...	...	...	0.23	55.30	...
		...	...	...	...	...	...	...	...	...	...	...	0.41	50.73	...
SOUTH BHAR	Maddhoom	Maddhoom	...	...	...	...	...	...	...	...	...	...	0.13	44.22	...
		...	...	...	...	...	...	...	...	...	...	...	0.15	50.73	...

Explanation.—... indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 2nd December 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS  
TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 28TH  
OF NOVEMBER 1890.**

The meteorological conditions during the past week have been typical of north-east monsoon weather. The changes which have taken place from day to day have been in all cases small, and of the usual oscillatory nature which characterises fine settled weather. Barometric pressure has been high and above the normal throughout the week. Temperature, which was at first rather high, has fallen almost steadily during the whole week. Humidity has been also moderate. The sky has been practically cloudless at almost all the inland stations, though it has been slightly clouded at the head of the Bay, and there has been an entire absence of rainfall at all stations.

Pressure was at the commencement of the week above the normal over the whole reporting area, the excess usually amounting to from nine to twelve-hundredths of an inch. On the 23rd a distinct rise, varying usually from two to three-hundredths of an inch, took place. This was succeeded on the 24th by a fall of about equal amount, and the fall continued on the 25th, when it equalled about a fortieth of an inch. Pressure still continued to fall for the following two days, and the decrease on the 26th amounted to about two-hundredths of an inch, while on the 27th it was rather less than this; but still the general pressure was about two to five-hundredths of an inch above the normal. On the 28th the fall of pressure had ceased, and a distinct rise commenced, but this only averaged about two or three-hundredths of an inch. It will thus be seen that pressure has been above the normal throughout the week, and the mean pressure has been from six to ten-hundredths of an inch in excess, the excess being usually largest in the south-western districts.

Temperature at the commencement of the week was above the normal over the whole province except at a few stations in South-West and East Bengal. On the 23rd there had been a very distinct fall in all districts except at a few of the western stations in Behar, Chutia Nagpur, and South-West Bengal. A further general fall took place on the 24th, the decrease in the mean temperature at many stations equalling about one and-a-half degrees; so that on this day temperature was more nearly normal, though there was still an excess at the western stations in Behar, and a defect at some of the stations in North Bengal. A further fall of temperature was registered on the 25th, and the whole province on this day showed a defect from the normal. Again on the 26th a general fall of from half to one degree was reported, and temperature became about two to three degrees lower than usual over a large part of the province, though again a slight excess had appeared in Behar. On the 27th a further fall, averaging about half a degree, was recorded, and on the 28th the variations were very small, and at some stations there was a slight increase and at others a decrease of temperature. The general defect of temperature on the 28th was, however, not large, and usually ranged from about one to two degrees.

For the whole week the mean temperature has been below the normal in Orissa and East Bengal by about a degree and-a-half, and in South-West and North Bengal by from half to one degree. In the districts of Behar and Chutia Nagpur, on the other hand, temperature has been in excess of the normal by about one degree.

The distribution of temperature during the week and its variation from the normal are, however, best seen in the table below, where the average maximum, minimum and mean temperatures for the week at nine typical stations in different districts of the province are compared with their normal values for the same period. From this table it will be seen that the minimum or night temperatures show greater variation from the normal than the day or maximum temperatures do:—

*Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 28th of November 1890.*

	Normal mean maximum temperature for the week ending 28th November.	Actual mean maximum temperature for the week ending 28th November 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 28th November.	Actual mean minimum temperature for the week ending 28th November 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 28th November.	Actual mean daily temperature for the week ending 28th November 1890.	Variation of actual mean from the normal.
Calcutta	84.5	83.2	-1.3	53.3	41.3	-12.1	75.9	72.3	-3.7
Dacca	83.5	78.8	-4.7	51.4	39.5	-11.9	70.0	66.3	-3.7
Burdwan	81.3	81.0	-0.3	50.7	42.1	-8.6	71.0	71.1	+0.1
Patna	79.3	79.3	0.0	56.8	58.2	+1.4	67.0	67.7	+0.7
Oyn	79.0	80.7	+1.7	54.7	55.3	+0.6	67.3	68.6	+1.3
Surmuan	79.0	78.5	-0.5	55.7	51.4	-4.3	67.8	67.0	-0.8
Masrigh	74.5	78.0	+3.5	54.0	54.8	+0.8	64.5	65.4	+0.9
Darjeeling	53.1	54.1	+1.0	40.1	42.0	+1.9	46.8	48.1	+1.3

**Rainfall.**—As above stated, there has been absolutely no rainfall in Bengal throughout the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 28th of November 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa ... ..	84.3	65.5	81.3	61.2	71.2	-1.4	Nil	0.12	-0.12	0.0	4.3	-0.3	1.60	1.28	63.27	62.02
South-West Bengal ...	84.5	65.5	80.4	59.9	70.2	-0.6	Nil	0.04	-0.04	0.0	0.1	-0.1	0.17	0.33	56.43	61.23
East Bengal ... ..	84.3	65.5*	80.3	59.0*	70.2*	-1.3*	Nil	0.21	-0.21	0.0	0.3	-0.3	0.17	1.07	71.42	73.08
North Bengal ... ..	84.6†	64.3	79.7	57.9	68.8	-0.3	Nil	0.02	-0.02	0.0	0.1	-0.1	0.22	0.16	95.00	85.83
North Bihar ... ..	81.2	51.3	73.4	57.0	65.6	+0.0	Nil	0.04	-0.04	0.0	0.1	-0.1	Nil	0.08	64.36	47.08
South Bihar ... ..	82.3	63.0	75.9	56.3	66.1	+0.9	Nil	0.08	-0.08	0.0	0.2	-0.2	0.09	0.21	61.06	48.18
Chota Nagpur ... ..	70.4†	51.2†	73.2†	54.1†	63.2†	+1.2†	Nil	0.10	-0.10	0.0	0.2	-0.2	0.02	0.34	46.09	45.28

\* Chittagong not included.

† Chyabassa not included.

METEOROLOGICAL OFFICE, BENGAL;  
The 2nd December 1890.

A. PEDLER,  
Meteorological Reporter to the Govt. of Bengal.

#### Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 23rd to 29th November 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.					HYGROMETRY.				Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
November...	23rd	Inches. 30.165	71.4	80.9	19.0	61.9	74.8	68.3	Inches. 0.06	64.4	% 70	Inches. ...
"	24th	142	70.5	79.1	17.2	61.9	73.8	66.1	0.08	61.0	64	...
"	25th	106	69.2	78.5	19.6	59.9	73.1	64.1	0.10	61.6	67	...
"	26th	0.5	69.8	79.7	20.8	58.9	73.8	66.1	0.09	61.0	66	...
"	27th	0.79	69.2	79.8	21.4	58.5	73.8	64.6	0.08	59.3	58	...
"	28th	0.83	68.4	78.9	21.0	57.8	73.2	63.1	0.09	65.1	76	...
"	29th	121	68.4	78.9	21.0	57.8	73.6	64.0	0.09	63.4	69	...

The mean 10 A.M. pressure of the seven days ... .. Inches. 30.113

The mean temperature of the seven days ... .. 69.5

The extreme variation of temperature ... .. 23.0

The maximum temperature ... .. 81.9

The mean 10 A.M. relative humidity of the seven days ... .. % 66

The total fall of rain from 23rd to 29th November 1890 ... .. Inches. Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

C. LITTLE,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA;  
The 1st December 1890.



## MEMORANDUM.

*Monthly review of deaths registered in forty-five districts of Bengal for the month of September 1890.*

THE deaths registered in forty-five districts of Bengal during the month of September 1890 were 146,205, and correspond to an annual rate of 26.52 per 1,000 of the aggregate population of those districts, which is 65,859,534. This rate is 3.48 higher than the mean rate of the corresponding months of the past five years 1885—89, and is also higher than the rate of the corresponding period of any of the past five years with which comparison is instituted, *vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Monthly average of five years, 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	23.04	21.90	24.28	22.98	24.00	23.04	26.52

The following table shows the highest proportions of deaths registered during the month of September 1890, compared with the corresponding month of 1889 :—

Districts.		Ratio per mille during—		Districts.		Ratio per mille during—	
		Sept. 1889.	Sept. 1890.			Sept. 1889.	Sept. 1890.
Gya	...	48.36	42.24	Hazaribagh	...	33.00	30.60
Shahabad	...	38.76	42.84	Rajshahye	...	31.92	21.48
Khulna	...	38.16	22.32	Jalpaiguri	...	30.96	25.20
Patna	...	35.86	36.84	Mozufferpore	...	30.96	23.76
Monghyr	...	35.88	45.96	Pubna	...	30.72	19.92
Darjiling	...	34.41	35.52	Bhagulpore	...	30.00	31.80
Jessore	...	33.96	21.60	Saran	...	29.76	26.04

The figures for September 1890 against Gya, Khulna, Jessore, Hazaribagh, Rajshahye, Jalpaiguri, Mozufferpore, Pubna, and Saran show an advance towards accuracy in death registration.

The total mortality during the month under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885—89 :—

		Ratio per mille during—		
		Sept. 1889.	Sept. 1890.	Monthly average of five years, 1885—89.
Cholera	...	...	84	1.32
Small-pox	...	...	08	1.10
Fever	...	...	20.16	17.52
Bowel-complaints	...	...	80	84
Injury	...	...	72	73
Other causes	...	...	3.84	3.24

Compared with the figures of both the past periods, there is a noticeable increase in the mortality of September 1890 under the head fever, and a sensible decrease in the death-rate from cholera.

The highest annual death-rates from cholera and fever occurred in the following districts :—

Cholera.		Fever.	
		Ratio per mille.	
Mozufferpore	...	...	37.08
Gya	...	...	38.48
Shahabad	...	...	31.44
Chumparun	...	...	29.68
Patna	...	...	28.92
Durbhanga	...	...	28.80
Saran	...	...	28.44
			27.96
			27.24
			21.96
			24.48
			24.24
			23.88
			23.40
			23.40
			22.20

The mortality of the month under review, according to *Sex, Class and Age*, was distributed as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males ...	28.20	Christians ...	18.60	Under 1 year ...	197.84
Females...	25.08	Hindus ...	27.12	1 and under 5 years ...	31.08
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population ...	112	Mahomedans ...	25.80	5 " 10 " ...	15.60
		Buddhists ...	16.68	10 " 15 " ...	13.56
		Other classes ...	23.28	15 " 20 " ...	16.08
				20 " 30 " ...	16.24
				30 " 40 " ...	17.04
				40 " 50 " ...	24.00
				50 " 60 " ...	35.28
				60 years and upwards ...	65.76

Detailed information regarding the mortuary statistics of the forty-five districts of Bengal during the month under review will be found in the statement appended.

W. H. GRACE, *Dip. Publ. Health, Camb.*,

The 28th November 1890.

Sanitary Commissioner for Bengal.

Statement showing the results of the registration of Deaths in the Districts in Bengal for the month of September 1890.

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## MORTALITY ACCORDING TO-

		Class.										Age.																				
		DEATHS AMONG -					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.										
DIVISIONS.	DISTRICTS.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	
BURDWAN	Burdwan	...	1,330	408	...	...	...	190	...	...	...	580	195	351	73	180	177	278	216	180	...	359	183.15	17.70	10.30	6.48	12.72	12.98	11.24	17.44	22.90	30.00
	Bankura	...	1,360	86	...	...	...	...	...	...	...	339	151	117	81	78	148	137	180	168	...	241	171.15	14.88	9.14	5.68	9.72	11.16	20.76	20.76	28.88	
	Birbham	...	1,307	265	...	...	...	...	...	...	...	480	199	111	69	54	127	106	109	70	...	340	150.72	13.76	13.93	8.64	9.40	11.16	14.38	18.32	31.84	
PRESIDENCY	Midnapore	...	4,343	350	...	...	...	370	...	...	...	942	674	264	211	232	476	487	486	401	...	781	183.16	20.40	12.15	10.20	12.49	13.00	15.96	24.74	33.61	35.70
	Hugli	...	1,084	268	...	...	...	...	...	...	...	257	154	69	36	61	132	139	155	129	...	191	181.60	31.29	16.60	10.80	12.24	12.12	15.48	24.24	32.29	61.22
	Serampore	...	689	143	...	...	...	...	...	...	...	128	110	104	67	42	84	61	57	68	...	116	147.24	41.40	34.76	18.48	15.66	14.28	16.68	16.68	32.16	71.52
RAJSHAHY	Total (Hugli including Serampore).	...	1,763	400	...	...	...	259	...	...	...	389	264	103	103	103	216	219	219	197	...	507	168.96	34.68	29.40	13.32	13.66	12.96	15.84	21.60	31.28	60.28
	Howrah	...	985	985	...	...	...	576	...	...	...	287	180	84	39	44	60	106	160	78	...	221	184.95	31.30	12.34	6.44	9.12	9.72	13.44	21.44	22.95	68.28
	24-Perquannah	...	1,020	1,120	...	...	...	8.31	...	...	...	479	473	323	171	161	308	391	285	235	...	424	150.18	29.58	17.38	12.72	16.80	11.85	11.04	17.88	31.80	57.88
DACA	Nadua	...	1,623	3,100	...	...	...	16.00	...	...	...	638	483	432	249	204	366	348	348	348	...	511	200.38	29.54	20.40	17.76	20.16	13.72	15.72	23.24	26.18	61.80
	Jessore	...	2,045	3,458	...	...	...	...	...	...	...	851	381	287	199	161	270	228	233	164	...	462	200.75	33.86	19.68	10.56	10.92	16.80	16.80	24.00	23.37	65.16
	Murshidabad	...	1,119	1,554	...	...	...	...	...	...	...	403	875	427	333	187	356	288	228	208	...	475	196.76	54.00	33.60	25.68	23.28	24.30	20.74	27.00	40.32	81.20
CHITTAGONG	Bhulna	...	1,530	1,888	...	...	...	...	...	...	444	475	240	174	141	336	379	319	222	...	521	179.70	43.04	24.62	23.04	26.70	10.56	92.64	29.76	64.12	64.72	
	Dinajpur	...	1,417	1,497	...	...	...	...	...	...	...	470	688	422	257	231	378	365	318	222	...	546	90.00	15.00	8.76	17.08	16.65	17.16	23.00	61.80	37.68	
	Rajshahy	...	884	2,884	...	...	...	...	...	...	...	387	321	281	141	141	217	488	464	404	...	100	234.00	20.76	11.16	14.16	17.28	13.20	15.00	26.28	33.88	54.00
PATNA	Runkpur	...	1,300	2,031	...	...	...	...	...	...	...	824	167	113	86	56	137	157	144	100	...	477	129.48	43.00	24.24	21.12	17.52	14.12	22.32	32.04	65.76	
	Boera	...	243	1,170	...	...	...	...	...	...	...	389	680	428	241	147	298	273	304	193	...	62	187.80	52.32	25.68	21.00	25.68	30.40	33.12	33.24	36.34	57.00
	Pabna	...	684	1,533	...	...	...	...	...	...	...	49	71	39	27	21	71	99	99	22	...	62	187.80	52.32	25.68	21.00	25.68	30.40	33.12	33.24	36.34	57.00
BHAGALPORE	Darjiling	...	419	19	...	...	...	...	...	...	...	87	174	90	45	11	187	181	108	90	...	175	142.88	31.12	9.48	8.76	10.40	23.16	27.36	35.84	34.92	65.40
	Jalpaiguri	...	980	522	...	...	...	...	...	...	...	613	462	360	165	144	314	350	257	212	...	424	104.62	16.60	9.74	8.40	11.40	11.28	13.60	17.76	22.56	51.00
	Dacca	...	1,340	1,908	...	...	...	...	...	...	...	319	411	233	104	181	197	244	211	226	...	471	104.62	16.60	9.74	8.40	11.40	11.28	13.60	17.76	22.56	51.00
COOCH NAG	Fairdipore	...	1,068	1,594	...	...	...	...	...	...	...	1,008	722	423	223	171	355	361	366	329	...	611	104.62	16.60	9.74	8.40	11.40	11.28	13.60	17.76	22.56	51.00
	Backerspur	...	1,280	3,294	...	...	...	...	...	...	...	380	539	389	213	307	645	847	468	488	...	963	104.62	16.60	9.74	8.40	11.40	11.28	13.60	17.76	22.56	51.00
	Myrmensing	...	1,732	3,154	...	...	...	...	...	...	...	340	394	267	134	147	230	225	219	215	...	446	124.34	30.24	14.76	13.32	14.76	15.84	15.84	25.68	35.76	66.00
CHITTAGONG	Chittagong	...	671	1,009	...	...	...	...	...	...	...	840	883	168	99	88	178	141	150	138	...	358	130.50	17.64	7.92	10.92	21.96	13.60	17.04	19.06	33.24	54.48
	Noakhali	...	391	1,023	...	...	...	...	...	...	...	391	309	143	100	233	287	282	217	270	...	358	130.50	17.64	7.92	10.92	21.96	13.60	17.04	19.06	33.24	54.48
	Lipparah	...	949	1,648	...	...	...	...	...	...	...	1,300	782	741	197	151	422	468	461	514	...	786	128.32	46.28	17.64	14.16	16.96	17.64	16.96	27.00	49.32	73.32
PATNA	Patna	...	4,751	862	...	...	...	...	...	...	...	1,040	1,315	831	427	824	778	688	734	777	...	1,771	42.76	58.88	36.12	21.36	26.28	23.16	34.88	65.64	111.48	
	Gya	...	7,638	943	...	...	...	...	...	...	...	1,305	918	439	267	998	610	532	509	505	...	960	162.10	38.72	22.48	14.52	14.52	14.52	14.52	24.00	44.96	86.00
	Shahabad	...	5,833	847	...	...	...	...	...	...	...	639	607	789	414	278	778	678	637	638	...	640	124.34	30.24	14.76	13.32	14.76	15.84	15.84	25.68	35.76	66.00
BHAGALPORE	Mozufferpore	...	5,265	719	...	...	...	...	...	...	...	637	706	487	289	123	688	447	437	510	...	640	124.34	30.24	14.76	13.32	14.76	15.84	15.84	25.68	35.76	66.00
	Darbhanga	...	4,379	841	...	...	...	...	...	...	...	917	7.00	338	221	197	559	585	509	509	...	1,123	128.32	46.28	17.64	14.16	16.96	17.64	16.96	27.00	49.32	73.32
	Sarun	...	4,822	867	...	...	...	...	...	...	...	459	636	243	191	149	413	308	439	463	...	647	124.34	30.24	14.76	13.32	14.76	15.84	15.84	25.68	35.76	66.00
CHITTAGONG	Chumnapur	...	1,517	463	...	...	...	...	...	...	...	329	7.18	442	271	139	631	407	467	467	...	504	259.84	57.48	18.12	16.44	17.76	16.44	17.76	27.48	47.40	85.00
	Monaghyr	...	6,390	300	...	...	...	...	...	...	...	329	329	329	329	329	329	329	329	329	...	329	329.32	51.60	16.96	15.84	15.84	15.84	15.84	25.68	35.76	66.00
	Bhagulpore	...	4,680	377	...	...	...	...	...	...	...	329	329	329	329	329	329	329	329	329	...	329	329.32	51.60	16.96	15.84	15.84	15.84	15.84	25.68	35.76	66.00
ORISSA	Purneah	...	1,758	1,220	...	...	...	...	...	...	...	249	341	192	116	98	187	134	116	106	...	180	131.66	43.20	21.12	13.96	13.96	13.96	13.96	23.04	33.60	50.88
	Malda	...	886	621	...	...	...	...	...	...	...	481	387	255	171	147	218	199	177	148	...	150	122.12	39.60	16.96	15.84	15.84	15.84	15.84	25.68	35.76	66.00
	Sonthal Pergamnahs	...	1,455	180	...	...	...	...	...	...	...	606	264	184	84	134	202	226	196	209	...	462	128.32	46.28	17.64	14.16	16.96	17.64	16.96	27.00	49.32	73.32

## MEMORANDUM.

*Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 8th November 1890.*

## BIRTHS.

The births registered during the week ending with Saturday, the 8th November 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 28.9 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3.3 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	27.6	28.5	28.4	27.7	26.0	25.6	28.9

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	15th Oct. 1890.	22nd Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.		15th Oct. 1890.	22nd Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.
Murdaoh	58.0	15.7	33.4	52.0	Narainganj	24.8	70.4	66.2	115.9
Midnapore	7.7	7.7	30.1	17.0	Chittavong	0.4	...	11.7	14.1
Hughli and Chinsurah	40.8	27.0	49.7	47.0	Goalindah	27.0	40.2	10.3	27.0
Berhampore	28.6	43.2	63.0	30.3	Patna City	14.3	12.3	11.4	15.3
Uttarpore	47.2	...	47.2	37.2	Gya	39.0	12.3	10.4	17.8
Howrah	24.0	25.2	31.0	35.3	Arrah	20.3	21.6	21.6	43.1
Bali	38.1	24.6	10.0	21.1	Muzaffarpore	21.0	24.3	37.7	32.8
Krishnagar	18.9	16.1	22.7	16.0	Durrbanj	37.0	30.2	69.0	31.2
Ranaghat	18.0	18.0	12.0	12.0	Chupra	40.3	11.1	33.2	19.1
Santipore	8.8	...	19.3	18.3	Bhagalpore	16.3	...	46.2	60.7
Jessore	4.1	12.2	...	12.2	Monahyr	37.1	40.1	61.5	44.2
Ranpore Baulsah	31.5	30.6	30.8	44.7	Purneah	6.9	13.9	8.4	27.7
Darjiling	61.9	14.8	...	14.8	Poori	10.8	10.8	21.0	27.8
Dacca	24.0	15.0	37.9	31.1	Total	25.0	19.4	20.1	23.9

It will be seen that last week the highest birth-rate was returned from Narainganj (115.9) and the lowest from Ranaghat (12).

## DEATHS.

The deaths registered during the week under review correspond to an annual rate of 23.9 per 1,000 of the population. The rate of the week is 9.5 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	40.0	37.4	26.7	20.7	33.7	35.4	23.9

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	15th Oct. 1890.	22nd Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.		15th Oct. 1890.	22nd Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.
Murdaoh	23.9	23.9	35.1	23.9	Narainganj	24.8	61.4	45.5	61.4
Midnapore	12.4	9.9	31.7	24.6	Chittavong	14.2	...	23.4	21.1
Hughli and Chinsurah	20.3	14.8	31.2	37.0	Goalindah	11.8	23.1	11.8	23.1
Berhampore	47.1	40.8	42.4	45.1	Patna City	11.9	18.0	15.3	16.8
Uttarpore	37.7	...	50.5	37.7	Gya	60.1	24.3	27.2	44.9
Howrah	17.8	10.3	18.0	19.5	Arrah	13.0	3.4	10.8	22.7
Bali	34.8	24.1	14.0	26.0	Muzaffarpore	38.9	14.6	14.0	20.7
Krishnagar	7.8	3.8	11.6	18.0	Durrbanj	20.5	29.9	30.0	14.2
Ranaghat	24.0	24.0	21.5	8.0	Chupra	20.1	23.1	17.1	12.1
Santipore	8.8	...	10.3	10.3	Bhagalpore	17.2	...	18.1	16.8
Jessore	...	30.0	21.3	21.3	Monahyr	21.7	24.4	37.1	40.7
Ranpore Baulsah	43.0	40.9	38.6	47.3	Purneah	6.9	20.8	27.7	24.2
Darjiling	61.9	44.8	60.7	29.6	Poori	23.2	18.9	25.7	23.2
Dacca	18.9	23.0	20.2	31.4	Total	22.8	20.4	23.7	23.9

It will be seen that last week the highest mortality occurred in the town of Rampore Beaulah (47·3) and the lowest in Kanaghat (6)

Measured by last week's mortality, the highest annual death-rates from cholera, fever, and other causes occurred in the following towns:—

Cholera.			Fever.			Other causes.		
	Ratio per mille.			Ratio per mille.			Ratio per mille.	
Monghyr ...	8·1	Rampore Beaulah ...	42·0	Gya ...	31·2			
Arrah ...	7·2	Serampore ...	23·5	Narainganj ...	20·7			
Patna City ...	3·6	Bali ...	21·1	Serampore ...	15·7			
Gya ...	2·7	Purneah ...	20·8	Poori ...	14·7			
Dacca ...	2·8			Monghyr ...	12·7			
				Midnapore ...	12·4			
				Krishnagar ...	11·3			

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 1·9 from cholera, against 1·8 per 1,000 in the preceding week; 0·4 from small-pox, against nil; 11·3 from fever, against 10·6; 2·7 from bowel-complaints, against 3·3; 5 from injury, against 2; and 7·4 from other causes, against 7·9 in the preceding week.

The mortality of last week according to Sex, Class and Age was as follows:—

According to Sex.			According to Class.			According to Age.		
	Ratio per mille.			Ratio per mille.			Ratio per mille.	
Males ...	25·0	Christians ...	14·9	Under 1 year ...	188·5			
Females ...	22·8	Hindus ...	22·5	1 and under 5 years ...	20·7			
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	110	Mahomedans ...	27·7	5 " 10 " ...	11·3			
				10 " 15 " ...	13·0			
				15 " 20 " ...	18·8			
				20 " 30 " ...	10·1			
				30 " 40 " ...	13·6			
				40 " 50 " ...	18·7			
				50 " 60 " ...	23·5			
				60 years and upwards ...	77·5			

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 29th November 1890.

Sanitary Commissioner for Bengal.

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## MEMORANDUM.

*Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 15th November 1890.*

## BIRTHS.

The births registered during the week ending with Saturday, the 15th November 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 24.2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3.2 below the average rate of the corresponding week of the past five years, and is also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	27.4	26.5	26.3	26.5	26.6	27.4	24.2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.		25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.
Bardwan	13.7	23.6	32.0	31.4	Narainganj	70.4	66.2	118.0	74.3
Bidarpore	7.7	30.1	17.0	15.5	Chittagong	...	11.7	14.1	16.4
Hughli and Chinsurah	27.3	42.7	27.9	32.6	Cuttack	40.2	16.3	27.0	23.1
Baranpore	43.4	23.0	31.3	25.0	Patna City	12.3	13.4	15.3	10.7
Chittagong	...	47.2	37.7	37.7	Tyga	12.3	10.4	17.8	21.0
Howrah	28.2	31.5	33.6	28.1	Arrah	21.6	21.3	43.1	10.9
Bali	34.0	10.6	21.1	21.1	Mossurpore	24.3	37.7	32.8	32.8
Krishnapur	18.1	22.7	14.0	18.7	Darbhanga	30.2	30.0	31.5	30.2
Ranighat	18.0	12.3	12.0	24.0	Chupra	11.1	33.2	19.1	14.1
Manikpore	...	16.3	15.8	30.3	Bhagalpore	...	40.2	30.7	37.1
Jessore	14.2	...	12.2	30.3	Monghyr	45.1	31.5	44.3	30.7
Rampur Baniach	36.8	36.0	44.7	49.7	Purneah	13.9	3.4	27.7	8.9
Darjiling	14.8	...	14.8	44.5	Poori	16.8	21.0	27.3	14.7
Dacca	23.0	27.9	31.1	25.0	Total	19.4	19.1	18.0	24.2

It will be seen that last week the highest birth-rate was returned from Narainganj (74.5) and the lowest from Purneah (6.9).

## DEATHS.

The deaths registered during the week under review correspond to an annual rate of 23.4 per 1,000 of the population. The rate of the week is 9.9 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	33.4	33.4	29.7	30.3	32.3	33.3	23.4

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.		25th Oct. 1890.	1st Nov. 1890.	8th Nov. 1890.	15th Nov. 1890.
Bardwan	22.9	35.1	75.0	32.9	Narainganj	41.2	46.3	41.4	54.6
Bidarpore	4.2	2.7	24.3	20.4	Chittagong	...	20.8	21.1	14.1
Hughli and Chinsurah	14.8	31.2	27.9	37.6	Cuttack	23.1	11.6	23.1	11.3
Baranpore	60.8	25.4	45.1	73.3	Patna City	15.0	15.3	10.3	14.3
Chittagong	...	50.0	37.7	38.1	Tyga	34.3	27.3	44.4	44.4
Howrah	70.5	18.0	19.3	23.0	Arrah	8.4	10.8	22.7	12.0
Bali	28.1	1.0	24.0	21.1	Mossurpore	14.6	14.0	20.7	17.0
Krishnapur	3.8	11.4	18.9	5.7	Darbhanga	20.0	20.0	14.2	15.0
Ranighat	24.0	21.0	9.0	12.0	Chupra	23.1	17.1	12.1	8.0
Manikpore	...	16.5	18.3	7.0	Bhagalpore	...	18.1	16.3	17.2
Jessore	30.6	40.0	24.5	40.9	Monghyr	24.4	27.3	30.7	27.1
Rampur Baniach	49.0	35.4	47.3	15.1	Purneah	20.8	27.7	24.3	13.0
Darjiling	44.3	46.7	25.0	7.4	Poori	18.9	22.7	25.2	22.0
Dacca	24.9	20.3	21.4	15.0	Total	24.4	22.7	23.0	23.4

It will be seen that last week the highest mortality occurred in the town of Serampore (72.6) and the lowest in Krishnagar (5.7).

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes occurred in the following towns:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Bowel-complaints.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Monghyr	... 6.8	Serampore	... 31.4	Narainganj	... 20.7	Serampore	... 21.6
Gya	... 4.1	Poori	... 31.4	Serampore	... 17.6	Narainganj	... 20.7
Patna City	... 8.6	Jessore	... 30.0			Poori	... 18.9
		Hughli	... 29.6			Gya	... 14.3
		Gya	... 23.5			Midnapore	... 13.9
						Hughli	... 13.1

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 1.8 from cholera, against 1.9 per 1,000 in the preceding week; .2 from small-pox against .04; 10.5 from fever, against 11.3; 3.7 from bowel-complaints, against 2.7; .3 from injury, against .6; and 6.9 from other causes, against 7.4 in the preceding week. The mortality from small-pox is noticeably severe in Chittagong, there being three deaths (7 per 1,000 of population per annum).

The mortality of last week according to Sex, Class and Age was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	... 25.7	Christians	... 14.9	Under 1 year	... 168.0
Females	... 20.9	Hindus	... 23.8	1 and under 5 years	... 25.2
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population...	123	Mahomedans	... 23.6	5 " 10 "	... 14.1
				10 " 15 "	... 10.8
				15 " 20 "	... 12.2
				20 " 30 "	... 17.0
				30 " 40 "	... 15.4
				40 " 50 "	... 20.8
				50 " 60 "	... 28.2
				60 years and upwards	... 58.8

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Pub. Health, Camb.*,

*Sanitary Commissioner for Bengal.*

The 29th November 1890.

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MORTALITY ACCORDING TO—										Age.										Ratio per 1,000 of population per annum.									
Class.										Deaths.										Ratio per 1,000 of population per annum.									
Deaths among—										Ratios per 1,000 of population per annum.										Ratio per 1,000 of population per annum.									
Ratios per 1,000 of population per annum.										Deaths.										Ratio per 1,000 of population per annum.									
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## PUBLIC WORKS DEPARTMENT,—BENGAL.

## IRRIGATION BRANCH.

## IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.

Areas leased for irrigation up to the end of August 1890.

CIRCLE.	District.	Canal.	Dedicated full discharge.	Average discharge in month.	Discharge utilized.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS IRRIGATED.								Rainfall, 1890-91.		Rainfall, 1889-90.		REMARKS.
								Five years, all crops.	Five years, kharif.	Annual income.					Grand Total.	During month.	Up to end of month.	During month.	Up to end of month.	
										Kharif.	Rabi.	Susroona.	Udadol.	Hot-weather.						
CHURRA	Cuttack	Taldanda, 1st reach	C. ft. 1,342	C. ft. 557	O. ft. 144	Acres. 10,061	Acres. 9,370	Acres. 10,117	Acres. 423	Acres. 19	Acres. 438	Acres. 10,553	Inches. 7.30	Inches. 36.15	Inches. 18.29	Inches. 46.27				
		Ditto, 2nd	505	343																
		Machgong	705	305	205	30,235	27,171	29,004	120	16	142	29,226	Inches. 7.30	Inches. 40.79	Inches. 19.53	Inches. 44.05				
		Kondrapara	1,007	802.24	655.98	40,547	40,917	51,576	2,318	35	2,353	54,961	Inches. 4.00	Inches. 22.34	Inches. 15.37	Inches. 40.13				
		Gobri	372.82	35.23	54.96	2,504	1,844	2,201	205	1	206	2,406	Inches. 9.12	Inches. 37.39	Inches. 15.21	Inches. 46.33				
		Do. extension	448	48.00	32.22	2,120	1,785	2,147	4		4	2,151	No gauge fixed.							
		Patamondri	265	116.43	345.33	10,451	7,320	10,227	60		60	10,387								
		High Level, Range I	808	303.19	320.14	19,894	17,879	21,790	51	5	56	23,195	Inches. 4.30	Inches. 25.10	Inches. 29.30	Inches. 44.24				
		Ditto, ditto II	737.76	45	31	2,445	1,230	2,405	29		29	2,434								
		Ditto, ditto III	757.35	535	525	37,094	35,342	39,117	141		141	39,258	Inches. 6.30	Inches. 27.06		Inches. 30.74				
		Total				165,457	146,247	172,226	4,261	200	4,461	176,706								
		Total of the corresponding period of last year						161,063	4,095	155	4,250	167,158								
SOUTH-WEST. DIV.	Midnapore	Midnapore	1,411	685	627	89,405	58,575	69,036			69,036	Inches. 5.41	Inches. 35.44	Inches. 12.11	Inches. 34.27	36 Days discharging.				
		Fanchkora	523	79	62	4,130	2,583	4,584	43		43	4,627	Inches. 4.11	Inches. 20.00	Inches. 14.51	Inches. 37.37	24 Days discharging.			
		Tidal reaches, Ranges I-II				363	327	336			336									
		Total				73,998	61,517	74,058	43		43	74,099								
		Total of the corresponding period of last year						62,941			62,941									
SOUTH	Patna and Gaya	Western Main	4,242	337	52	10,055	11,511	12,550	1,437	234	1,671	Inches. 16.00	Inches. 20.12	Inches. 11.77	Inches. 35.00					
		Buxar	1,225	454	147	42,487	67,447	61,345	1,935	60	2,565	67,244								
		Arrah	2,000	922	585	101,300	108,543	90,843	2,216	111	2,560	108,532	Inches. 13.06	Inches. 51.47	Inches. 12.38	Inches. 33.04				
		Eastern Main	1,400	323	400	1,549	1,777	1,464	27	5	36	1,539	Inches. 16.75	Inches. 51.19	Inches. 12.43	Inches. 36.48				
		Patna	1,400	323	400	41,791	42,375	39,254	11,345	410	11,755	51,004								
		Total				197,083	211,533	194,727	24,439	340	24,779	Inches. 8.54	Inches. 37.23							
		Total of the corresponding period of last year						167,050	20,706	845	11,551	178,591								
		Grand Total				437,059	422,527	454,727	24,471	4,261	4,156	240	2,544	41,611	492,880					
		Grand Total of the corresponding period of last year						407,050	214,920	60,706	5,095	6,740	305	11,591	24,091	665,130				

CALCUTTA,  
The 1st December 1890.G. A. G. SHAW,  
Under-Secy. to the Govt. of Bengal.

**PUBLIC WORKS DEPARTMENT,—BENGAL.**

## IRRIGATION BRANCH.

*Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of August 1890.*

[illegible]

CALCUTTA,  
The 2nd December 1890.

G. A. G. SHAWE,  
Under-Secretary to the Govt. of Bengal.



CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 29th November 1890, as compared with the corresponding week of the previous year.

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 29TH NOVEMBER 1890.			WEEK ENDING SATURDAY, THE 30TH NOVEMBER 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	459	68,180	1,044	186	12,975	168
Jute	406	2,12,650	3,747	402	1,87,210	3,414
Firewood	159	87,800	1,200	102	55,775	790
Other articles	1,382	3,10,775	4,982	1,088	2,16,110	3,436
Total	2,406	6,78,875	11,063	1,728	4,71,100	7,807

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIL-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	248,421	5,10,887 4 0	21,10,601 10	5,80,861 12 9	10,204 3 4	3,07,323 1 4	75,082	70,028½	1,45,080½
Or per mile of railway	...	308 12 5	...	390 12 6	10 2 11	185 2 8	...	...	...
Per previous 52 weeks of half-year	4,158,784	28,03,877 3 0	2,70,32,912 30	87,32,933 0 8	3,30,706 5 1	1,36,62,615 11 7	1,325,233	1,612,951½	2,938,184½
Total for 51 weeks	4,781,155	31,14,734 7 0	3,21,93,614 0	98,18,894 11 6	3,36,909 10 5	1,47,70,528 12 11	1,369,500	1,568,980½	2,938,480½
COMPARISON.									
Total for corresponding week of previous year	234,074	3,42,841 5 7	21,22,128 5	5,80,880 8 9	22,857 3 5	2,40,422 14 9	68,919	62,058	130,977
Per mile of railway corresponding week of previous year	...	226 12 4	...	390 12 10	14 12 8	152 5 11	...	...	...
Total to corresponding date of previous year	5,054,833½	33,72,700 14 7	4,36,70,290 50	97,32,456 0 0	3,48,293 3 1	1,57,00,140 1 8	1,375,647	1,679,631	3,055,278

\* The decrease in coaching traffic is chiefly due to figures for the corresponding period of 1889 having included earnings on account of certain troop extra and main special trains which ran between E. B. & N.-W. Railways.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1893.

RECEIPTS FOR WEEK ENDING 29th NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 29th NOVEMBER 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 29th NOVEMBER 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 29th NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	9,40,400	622	1,510½	9,97,923	659	1,684½	2,77,22,301	585	1,525½	2,58,02,929	607	...	10,30,878

## PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,145	5,235 4 0	34,192 50	3,351 9 4	38 14 0	5,626 11 0	1,745	645	2,390
Or per mile of railway ...	175	91 0 8	597 20	58 9 4	0 10 10	150 15 7	...	...	...
For previous 20 weeks of half-year ...	*266,383	*1,50,025 13 0	†18,00,834 "	†44,358 14 0	‡648 11 0	1,03,063 6 0	27,900½	10,700	38,600½
Total for 21 weeks ...	266,111	1,55,264 1 0	7,24,026 30	47,741 7 0	659 9 0	2,03,661 1 0	29,645½	11,345	40,990½
COMPARISON.									
Total for corresponding week of previous year ...	11,163½	5,889 10 2	70,202 20	3,080 13 0	592½ 9	9,557 2 11	1,835	1,064	2,899
Per mile of railway corresponding week of previous year ...	194	102 16 0	1,227 20	54 0 7	0 15 11	157 15 11	...	...	...
Total to corresponding date of previous year ...	265,217½	1,45,507 1 11	9,62,561 20	47,305 4 0	1,406 13 0	2,14,610 2 11	32,559	13,545	46,104

\* Added number of passengers 21,581 and Rs. 14,107 8 0 }  
 † Ditto Mds. 2,172-16 and deducted " 15 14 0 } on account of differences between the approximate and audited returns to week ended 11th October 1890.  
 ‡ Deducted " 11 15 0 }

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	9,637	168	57½	6,023	151	47½	3,35,906	109	57½	*3,32,601	171	5,745	...

Added Rs. 14,978 on account of difference between the approximate and audited figures to week ended 11th October 1890.

## TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 22nd November 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	18,070	4,516 14 0	9,787 0	414 0 0	5 8 0	4,034 7 0	666	75	741
Or per mile of railway ...	...	205 0 8	...	18 4 8	0 5 12	221 13 10	...	...	...
For previous 20 weeks of half-year ...	*524,554	*80,079 10 0	†11,35,381 20	†4,811 2 0	‡115 14 0	85,104 0 0	18,071	980	19,051
Total for 21 weeks ...	542,714	84,294 0 0	1,45,161 20	5,325 0 0	123 8 0	90,044 7 0	18,967	1,031	20,008
COMPARISON.									
Total for corresponding week of previous year ...	14,246	3,469 3 3	5,500 0	207 11 0	3 8 0	3,706 6 3	927	135	1,062
Per mile of railway corresponding week of previous year ...	...	156 13 1	...	9 5 6	0 2 8	166 4 11	...	...	...
Total to corresponding date of previous year ...	573,483	91,150 10 9	1,95,940 20	5,539 8 0	128 7 9	90,548 10 6	19,299	1,194	20,493

\* Added No. of passengers 4,531 and Rs. 884 0 0 }  
 † Ditto Mds. 1,786-16 and deducted " 437 4 0 } on account of differences between the approximate and audited returns to week ended 11th October 1890.  
 ‡ Ditto " 10 0 0 }

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			RECEIPTS FOR WEEK ENDING 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 22ND NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	3,700	165	22½	4,034	228	22½	1,79,387	237	22½	*1,75,004	231	...	4,120

\* Added Rs. 487 on account of difference between the approximate and audited figures to week ended 11th October 1890.

## EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 15th November 1890, on 763 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-bus.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week	138,076	Rs. 71,415 0 0	6,40,396 0	1,78,450 0 0	18,180 0 0	2,05,730 0 0	20,000	35,637	55,637
Or per mile of railway	183	94 0 0	842 0	234 0 0	24 0 0	270 0 0	26	46	72
For previous 19 weeks of half-year	2,632,573	11,43,174 0 0	1,15,38,621 0	32,40,175 0 0	3,63,486 0 0	*42,60,761 0 0	419,409	830,479	1,249,888
Total for 20 weeks	2,770,649	12,14,589 0 0	1,15,99,017 0	32,58,625 0 0	3,81,666 0 0	*42,83,521 0 0	439,409	866,116	1,305,525
COMPARISON.									
Total for corresponding week of previous year	145,681	76,719 0 0	6,08,929 0	1,75,038 0 0	19,180 0 0	2,72,947 0 0	22,310	35,084	57,394
For mile of railway corresponding period of previous year	193	105 0 0	815 0	234 0 0	25 0 0	281 0 0	22	46	68
Total to corresponding date of previous year	3,361,973	12,84,531 0 0	1,24,74,067 0	30,32,314 0 0	3,47,916 0 0	*47,12,661 0 0	451,437	836,860	1,288,297

\* Audited up to week ending 30th September 1890.

† Excluding steamer earnings.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
747	Rs. 2,72,947	364	763	2,05,730	269	715	65,45,408	290	750	*69,53,215	277	20,820	.....

\* Audited up to week ending 30th September 1890.

## BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 15th November 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week	22,357	Rs. 9,000 0 0	44,928 0	2,750 0 0	550 0 0	13,300 0 0	3,713	1,992	5,705
Or per mile of railway	179	72 0 0	360 0	22 0 0	4 0 0	106 0 0	30	16	46
For previous 19 weeks of half-year	470,994	1,03,114 0 0	7,52,872 0	60,083 0 0	2,328 0 0	*2,31,037 0 0	67,939	34,369	102,307
Total for 20 weeks	493,351	1,02,114 0 0	7,57,800 0	62,833 0 0	2,332 0 0	*2,33,369 0 0	71,652	36,361	108,013
COMPARISON.									
Total for corresponding week of previous year	27,808	11,089 0 0	39,400 0	2,708 0 0	800 0 0	13,097 0 0	3,557	2,065	5,622
For mile of railway corresponding period of previous year	223	89 0 0	315 0	22 0 0	6 0 0	105 0 0	29	16	45
Total to corresponding date of previous year	554,975	1,20,461 0 0	11,94,140 0	1,11,510 0 0	2,401 0 0	*2,04,469 0 0	74,760	40,103	114,863

\* Audited up to week ending 30th September 1890.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1889.			RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH NOVEMBER 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
125	Rs. 13,097	113	125	13,294	106	125	4,34,339	117	115	*5,00,826	97	.....	61,589

\* Audited up to week ending 30th September 1890.

## DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 15th November 1890, on 85 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,171	5,920 0 0	37,077 0	9,650 0 0	90 0 0	8,640 0 0	2,410	694	3,104
Or per mile of railway ...	164	58 0 0	433 0	41 0 0	1 0 0	100 0 0	.....	.....	.....
For previous 19 weeks of half-year ...	229,011	51,904 0 0	3,60,995 0	33,230 0 0	4,834 0 0	*1,22,072 0 0	45,191	12,497	57,688
Total for 20 weeks ...	243,182	57,824 0 0	3,98,072 0	36,760 0 0	4,924 0 0	1,32,012 0 0	47,601	14,191	61,792
COMPARISON.									
Total for corresponding week of previous year ...	10,744	5,167 0 0	35,804 0	3,902 0 0	163 0 0	9,172 0 0	2,540	1,940	4,480
Per mile of railway corresponding period of previous year ...	126	50 0 0	420 0	45 0 0	1 0 0	107 0 0	.....	.....	.....
Total to corresponding date of previous year ...	501,117	95,663 0 0	4,69,206 0	38,857 0 0	4,129 0 0	1,39,599 0 0	49,709	15,719	65,428

\* Audited up to week ending 20th September 1890.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1890.			RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH NOVEMBER 1889.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
85	9,170	107	86	8,640	100	85	2,13,853	75	83	*2,20,475	78	6,636	.....

\* Audited up to week ending 20th September 1890.

## NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 15th November 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,366	910 0 0	7,914 0	419 0 0	50 0 0	1,360 0 0	400	250	750
Or per mile of railway ...	86	33 0 0	290 0	15 0 0	1 0 0	49 0 0	.....	.....	.....
For previous 19 weeks of half-year ...	25,253	19,598 0 0	1,37,571 0	10,724 0 0	232 0 0	*30,633 0 0	10,329	6,304	16,633
Total for 20 weeks ...	27,619	20,508 0 0	1,45,485 0	11,143 0 0	282 0 0	31,915 0 0	10,729	6,554	17,283
COMPARISON.									
Total for corresponding week of previous year ...	2,023	1,170 0 0	13,090 0	1,033 0 0	14 0 0	4,196 0 0	580	340	920
Per mile of railway corresponding period of previous year ...	73	41 0 0	478 0	38 0 0	.....	79 0 0	.....	.....	.....
Total to corresponding date of previous year ...	62,116	32,658 0 0	1,71,291 0	11,275 0 0	1,416 0 0	35,460 0 0	11,879	7,437	19,316

\* Audited up to week ending 20th September 1890.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1890.			RECEIPTS FOR WEEK ENDING 15TH NOVEMBER 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 15TH NOVEMBER 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 15TH NOVEMBER 1889.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,160	79	27½	1,360	49	27½	61,629	59	27½	*57,077	44	.....	2,048

\* Audited up to week ending 20th September 1890.

## BENGAL AND NORTH-WESTERN AND TIRHOOT RAILWAYS.

COMBINED SYSTEM.

Approximate Return of Traffic for week ended 15th November 1890, on 691 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs.	Mds.	Rs.	Rs.	Rs.			
Total traffic for the week	66,070	55,594	4,33,770	56,556	6,470	91,010	12,500	16,590	(a) 29,090
Or per mile of railway	95'44	37'61	620'30	81'84	19'80	131'71			
For previous 18 weeks of half-year	1,304,055	5,32,050	48,61,184	6,10,080	1,26,087	13,60,008	228,903	210,007	438,910
Total for 19 weeks	1,450,125	5,58,029	52,95,054	6,66,660	1,32,557	15,00,076	241,403	226,607	468,010
COMPARISON, Audited Returns.									
Total for corresponding week of previous year, 640 miles open	67,876	38,640	3,10,795	50,263	15'223	87,075	13,445	12,000	25,445
Per mile of corresponding week of previous year	160'81	50'53	408'64	54'78	16'84	134'17			
Total to corresponding date of previous year	1,605,059	6,00,690	52,19,367	6,00,835	1,58,990	15,56,813	227,027	249,081	476,108

\* Steam-boat earnings for the week, Rs. 7,600.  
 Ditto ditto to date, " 1,94,740.  
 \* Ajodhya bridge earnings for the week, " 300.  
 Ditto ditto to date, " 5,450.

(a) Train mileage figures:—  
 Bengal & N.W. Section. Tirhoot Section.  
 Coaching ... Rs. 5,750 Rs. 6,300  
 Goods ... " 6,950 " 10,000  
 Total ... 12,700 16,300

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal and North-Western and Tirhoot Railways.

RECEIPTS FOR WEEK ENDING 15th NOVEMBER 1890.			RECEIPTS FOR WEEK ENDING 15th NOVEMBER 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 15th NOVEMBER 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 15th NOVEMBER 1889.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		
691	91,010	131'71	640	87,075	134'17	674	36,33,756	121'72	640	29,75,169	125'51	11,388	

N.W. — Earnings of B. and N.W. Section. Week ended 15-11-90. Week ended 15-11-89.  
 Coaching ... Rs. 11,500 Rs. 17,600  
 Goods ... " 18,540 " 12,980  
 Other earnings ... " 4,950 " 8,975  
 Total ... 35,490 39,555

Earnings of Tirhoot Section. Week ended 15-11-90. Week ended 15-11-89.  
 Coaching ... Rs. 14,400 Rs. 20,080  
 Goods ... " 37,610 " 23,345  
 Other earnings ... " 3,220 " 3,348  
 Total ... 55,230 46,773

## DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 15th November 1890	13,071
Corresponding period of 1889	10,955
Increase	2,116
Receipts per mile for week ending 15th November 1890	Rs. A. P. 288 0 11
Corresponding period of 1889	214 18 1
Increase	58 3 10
Receipts from 1st July to 15th November 1890	2,20,076
Corresponding period of 1889	2,26,825
Decrease	5,749



# SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, DECEMBER 10, 1890.

## OFFICIAL PAPERS.

*Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

### CONTENTS.

Page.	Page.
Resolution on the General Administration Report of the Chittagong Division for the year 1889-90 ... 1483	Results of the Meteorological Observations taken at the Alipore Observatory from 30th November to 6th December 1890 ... 2289
Report on emigration from the district of Baran ... 1497	Abstract of the results of the Barometrical and Thermometrical Observations taken at 10 A.M. at the Meteorological Office, Chowringhee, in the month of November 1890 ... 2290
Rainfall, Weather, and Stationed Prospects of the Coope ... 1501	Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 30th November to 6th December 1890 ... 2291
Prices-current (retail) of Food-grains, Firewood and Salt in the Head-quarter Station Buzars of the districts of Bengal on the 30th November 1890 ... 2504	Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 3rd November 1890 ... 2292
Meteorological Report of the Province of Bengal for the month of November 1890 ... 2510	Orissa Circle—Taldanda Canal System for the month of August 1890 ... 2293
Table of Rainfall recorded at Stations in Bengal in November 1890 ... 2511	Circular and Eastern Canals for the week ending 6th December 1890 ... 2297
Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of November 1890 ... 2521	Weekly Return of Traffic Receipts on Indian Railways ... 2297
Meteorological Report of the Province of Bengal for the week ending Friday the 6th of December 1890 ... 2523	
Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 6th of December 1890 ... 2524	

### RESOLUTION ON THE GENERAL ADMINISTRATION REPORT OF THE CHITTAGONG DIVISION FOR THE YEAR 1889-90.

#### GENERAL DEPARTMENT—MISCELLANEOUS.

*Calcutta, the 9th December, 1890.*

#### RESOLUTION.

##### READ—

The General Administration Report of the Chittagong Division for the year 1889-90.

The report is submitted by Mr. Lyall, who was in charge of the Division during the year with the exception of three months, when Mr. Venasey acted as Commissioner.

- Owing to political considerations in connection with the Chin-Lushai Expedition, the Commissioner during the touring season could not leave the Kurnafuli Valley, to

Tours. which the Deputy Commissioner of the Hill Tracts was also confined. The tours made by the Collectors of Chittagong and Tipperah and by all sub-divisional officers were satisfactory, and a deficiency in the case of Noakhally is accounted for sufficiently.

- The weather was favourable for rice and jute throughout the Division and bumper crops of both were obtained in Tipperah. There was, moreover, a happy conjunction of good harvests and high prices, and the Commissioner is able to record:—

Weather, crops, and condition of the people. "The condition of the agricultural classes, who form the bulk of the population, was raised to a point which it has certainly not reached for many years—probably never in parts

of the Division. In Chittagong, in addition to the good harvest, there was a brisk demand for labour in Aracan, so that the people quite got over the bad effects of the previous year. This district, however, has but little surplus crop, and the condition of the people improved less than in the more favoured districts of Noakhally and Tipperah.

"The people of Tipperah were stated last year to have got over the effects of the previous bad years, and the past year has raised the cultivators to a state of prosperity such as they have never before known. Zemindars, including Government, have in consequence realised rent with ease, loans have been repaid, and the Tipperah Loan Bank, Limited, was left at the close of the year with Rs. 30,000 out of its capital of one lakh of rupees uninvested, because there were no borrowers. This is easily understood when the value of the jute crop is considered. The ryots are calculated by the Collector to have received about 42 lakhs of rupees in cash for this crop alone, while its production at a liberal estimate cannot have cost 10 lakhs. The margin of profit is, therefore, very high. The district is so rich that, in spite of the large increase of jute cultivation, it still exports rice largely, and last year both Calcutta and Dacca took large quantities.

"Some people say that the increased cultivation of staples like jute interferes with the food supply. This is not the fact in Tipperah, as the exports of rice from Brahmanbariah show.

"The great bulk of the jute crop is grown in this subdivision, yet last year, it is calculated, rice and paddy to the value of 1½ million rupees were exported from the sub-division alone, without reckoning the exports from the rest of the district."

Even with respect to the Hill Tracts, where there was a partial failure of the important cotton crop and the Lushai Expedition was a disturbing factor, the Commissioner is able to say that "it is many years since the hillmen have been so free of debt as they are at this moment." A considerable number of persons emigrated during the year from these tracts to Hill Tipperah, but the movement appears due to occasional causes not likely to recur. The labourers of Chittagong visited Burma as usual at the busy season and on a somewhat increased scale, returning with sums varying from Rs. 10 to Rs. 80.

With regard to health, the Hill Tracts only are well spoken of; in the remainder of the Division there was considerable mortality from fever, and in Tipperah and Noakhally a large increase of deaths from cholera.

Trade and Commerce. 4. The following is extracted from the Commissioner's report:—

"The past year has been the best on record as regards the sea-borne trade of the port, in spite of the great falling off in the rice trade.

"The tables below show a falling off of 11 ships engaged in foreign trade, but an increase of tonnage, the average tonnage having increased from 1,233 tons to 1,447. If ships sailing under foreign flags be excluded, the average tonnage of ships sailing under the British flag is 1,602 tons. Interportal trade has also increased largely both in the number of ships engaged and in tonnage. This is partly due to the British India Steam Navigation Company's running two steamers a week for part of the year and partly to the larger quantity of jute imported:—

#### Foreign Trade.

	NUMBER OF VESSELS ENTERED.			TONNAGE.		
	Inwards.	Outwards.	Total.	Inwards.	Outwards.	Total.
1888-89 ... ..	45	50	95	55,583	60,804	117,199
1889-90 ... ..	43	41	84	51,509	60,053	121,566
Difference in 1889-90 ...	-2	-9	-11	+ 21	-548	+4,373

#### Interportal Trade.

	NUMBER OF VESSELS ENTERED.			TONNAGE.		
	Inwards.	Outwards.	Total.	Inwards.	Outwards.	Total.
1888-89 ... ..	845	837	1,682	165,818	165,495	330,813
1889-90 ... ..	982	982	1,964	170,650	179,445	356,995
Increase in 1889-90 ...	137	145	282	11,222	13,950	25,193



\* The value of the total sea-borne trade of the port increased by the large sum of Rs. 51,13,005, the figures being Rs. 3,16,90,588 as against Rs. 2,65,83,583. Until now the figures of 1887-88 were the highest, but the past year shows an increase of Rs. 26,13,788 as compared with them. So recently as 1876-77 the whole value of the trade of the port was only Rs. 54,39,320, or little more than the increase of the past year, and in these 13 years the value of the trade of the port has sextupled itself, and this with no increased facilities.

"When the Assam Railway is in working, the growth should be even faster, and it is difficult to understand why, in the face of such an increase of trade, there should be any hesitation in making the railway."

The Commissioner gives tables of articles of export and import and explains the fluctuations. There was a large decrease in the export of rice and paddy, the boat traders who generally supply Chittagong preferring to meet the demand in the western districts of Bengal as involving less danger to their boats and cargo. The great increase in the export of jute gives the Commissioner occasion to insist on the advantages that would accrue from a railway. He says:—

"The export of jute is the highest on record, being 222,843 cwt. over last year and 89,222 cwt. higher than 1887-88, which was up to then the highest figure."

"The growth of the jute export trade is very remarkable. It began in 1877-78, when the exports amounted to 130,775 cwt. Five years after, in 1882-83, it amounted to 1,149,257 cwt., and now it has reached 1,505,703 cwt., and this large figure would speedily be doubled if a railway were constructed."

"I do not use the word 'doubled' unadvisedly, but deliberately and with the full conviction that I am not guilty of exaggeration."

The export of tea was 1,172,549lb this year as compared with 1,222,786lb last year; the decrease of 50,237lb is attributed to weather unfavourable for production. In the Hill Tracts the trade in india-rubber is stated to have almost died out, the trees being probably exhausted.

5. The port of Chittagong under the Commissioners of the Port Trust (this being their first complete year of management) appears to be in a flourishing condition. The port fund closed with a credit balance of Rs. 1,10,397-5-3. The pilotage fund shows a debit balance of Rs. 4,970-6-4½, which will probably be decreased during the year. The barque *Grosvenor* was wrecked during the year, the *William Duthie* was destroyed by fire, and a fire, which was happily extinguished, occurred on board the barque *Ophelia* partly loaded with jute. Stringent rules are under consideration to meet this source of danger.

6. There was an increase in reported crime, from 14,955 cases in 1888 to 15,713 in 1889, which is accounted for only in so far as the prosperity of the cultivators afforded them greater facilities for petty prosecutions, and the demand for jute land in Tipperah led to the institution of charges of riot, trespass or mischief. Agrarian disputes of every kind are evidently in this Division a fertile source of crime, or at least of collisions involving subsequent magisterial proceedings; and it is to be hoped that the settlement of the Chittagong district, which is being effected at present, may ultimately bring about permanent improvement in this respect, by removing the uncertainty as to possession or ownership which is at the root of such contentions. The Commissioner considers that the conduct of the police and of the chowkidars was good on the whole, noticing that in one important case considerable detective ability was displayed, and that there were few convictions of officers. The returns, however, show that an unusual proportion of prosecutions were unsuccessful, a failure attributed by the Commissioner to pressure of work which, he thinks, prevented Magistrates giving due attention to some cases, particularly in Chittagong and Tipperah. The explanation is of a novel character, and is hardly borne out by the facts that the percentage of convictions was lowest, not in Chittagong or Tipperah, but in the comparatively small district of Noakhally; and that it was most conspicuous in cases tried by benches. The Lieutenant-Governor notices with satisfaction the high tribute paid to the efficiency and good services of the frontier police.

7. The collections on account of land revenue were good, inasmuch as they exceeded the current demand and considerably reduced the outstanding balance. In regard to direct management the Commissioner observes:—

"The system of khas collection in Chittagong is now, I consider, an assured success, and Government is collecting a large and safe revenue at a cost of under 10 per cent. (9½

was the exact figure last year), instead of paying 20 per cent. to izaradars and realizing from them with difficulty. All the five circles collected over 100 per cent. on the current demand, which was Rs. 3,94,874, the collections being Rs. 4,36,457. The highest percentage on the current demand was 119, which was obtained in the Raooan circle.

"In Tipperah, although the returns show a balance of Rs. 3,154 in estates under direct management, this was reduced by collections and remissions to Rs. 2,441, while advance collections reached the sum of Rs. 3,431, so that actually Rs. 990 were collected in excess of the whole demand, arrear and current. These figures prove the prosperous state of the district beyond contradiction."

In Noakhally results were not so good, and a scheme has since been prepared for effecting an improvement in the system.

In the Hill Tracts collections also improved, the table showing Rs. 2,51,651-3-4 as against Rs. 1,74,599-0-3 last year. But about Rs. 65,000 of this increase consists of a large accession to the post-office revenue, due to the Chin-Lushai Expedition.

8. The Commissioner notices the bad influence which is not unfrequently exercised in the administration of boards and municipalities by party spirit arising out of personal questions. But, he adds,—“in spite of such drawbacks, much good work has been done during the past year, particularly by the Tipperah Board, who have also ceased to employ primary school money in supporting higher class schools. They have in hand or in contemplation some really useful new roads and are about to deepen some important khals, and have taken up the question of increasing the number of dispensaries and of improving the water-supply of the district in a business-like spirit. They have also fostered improved steamer communication with other districts. The Noakhally Board, I think, showed a want of appreciation of the importance of improving the inland water system of the district in deciding to drop the scheme for improving the Nadona khal, but they seem now disposed to take it up again.”

9. The Lieutenant-Governor desires to take this opportunity of acknowledging the valuable services of the tribal Chiefs in the Hill Tracts in getting together men for the Chin-Lushai Expedition. The thanks of the Lieutenant-Governor are given to Mr. Lyall for his excellent administration of the Division during the past and many previous years. The remarks of the Commissioner regarding the conduct of officers will, as usual, be forwarded to the Appointment Department; those upon Mr. Slack, Collector of Chittagong, are noticed by His Honour as particularly favourable.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

*Secretary to the Govt. of Bengal.*

REPORT ON EMIGRATION FROM THE DISTRICT OF SARUN.

THE following report is published at the suggestion of the Commissioner of Patna for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

The 4th December, 1890.

No. 609G., dated Bankipore, the 30th September, 1890.

From—W. KEMBLE, Esq., Offg. Commissioner of the Patna Division,  
To—The Secretary to the Government of Bengal, General Department.

I HAVE the honour to forward a copy of an interesting report by the Collector of Sarun on the emigration from his district for publication, if it is considered advisable, in the *Calcutta Gazette*. It was first received more than two months ago, but was returned to Mr. Bourdillon at his own request in order that some further and fuller information regarding travellers by railway, which he hoped to be able to procure, might be incorporated in it. Those hopes have, however, not been realized, as he has ascertained that as yet most of those who emigrate from Sarun make their journey on foot.

2. The noticeable feature in this emigration is that it is only temporary. So long as the women will not emigrate, and the men send all their earnings back to their homes, returning themselves at intervals, there is no hope of reducing the pressure of the people on the land. Under the circumstances, emigration seems likely to bring about an increase in population.

3. The absence of emigration to Assam is remarkable. I would remark that Goalpara is not one of the Assam tea districts: it belongs properly to the same category as Rungpore. It is satisfactory to see that Sarun men have found their way to Burmah.

No. 1401, dated Chupra, the 8th—10th July, 1890.

From—J. A. BOURDILLON, Esq., Magistrate of Sarun,  
To—The Commissioner of the Patna Division.

IN my Annual Administration Report for the year 1889-90, I mentioned that I had been making enquiries about emigration from Sarun, and that I hoped to submit a further report before long. The compilation of the materials for this report has been a more tedious task than I had anticipated, and it is only now that I am able to lay it before you.

2. Four sources of information on this subject are available, viz., (a) the people themselves, through the medium of the police, unofficial Europeans, and other local residents in the district; (b) the statistics of distribution at the census of 1881; (c) the figures of the Postal Department in regard to money-orders paid in Sarun; and, lastly, (d) statistics of passenger traffic on the railway. The facts and inferences afforded by the first three will be found detailed below.

3. Emigration from Sarun should be divided first of all into the *quasi*-permanent and the temporary. In the former category I place all those cases in which men leave the district for a year or two at a time, or even longer; the temporary emigration, on the other hand, lasts only a few months.

4. The *quasi*-permanent emigration is affected mostly by two classes of persons—Mahomedans and better class Hindus. The Mahomedans go very largely to Calcutta where they may be found in domestic service as khidmatgars, syces, and drivers of hackney carriages. The better class Hindus go as cartmen and durwans to Calcutta and Darjeeling, while a considerable number of lower caste men, such as Chamars, Dusadhs, and Gareris go as syces. These men remain away for a year or two—sometimes more—making remittances and paying occasional visits to their homes. When a Mahomedan or a low caste Hindu is once well established in a good situation or business, he not infrequently sends for his wife and family.

5. As to the earnings of these people it is difficult to make any exact calculation. They certainly do well, for besides keeping themselves in an expensive place like Calcutta, they remit considerable sums home. Light is sometimes thrown on this side of native life by small incidents. In 1887 a Sarun Mahomedan was executed here for the murder of his aunt following on a quarrel about the expenditure of money he had sent from Calcutta.

It appeared that he had remitted Rs. 80 in two years, and he had led by no means an economical life nor been in continuous employ: the man was by profession a wrestler and as such had travelled literally all over India, but had been, among other things, a gentleman's servant, a ticca-garry driver, and a river boatman.

6. The better class Hindu cartman drives down his cart and bullocks to Calcutta, and when he has repaid his mahajan and made as much as he thinks sufficient, he sells them off and returns home.

7. A few are now going to Burmah voluntarily, besides the very considerable numbers in the Burmah Military Police. These are chiefly domestic servants, such as dhobis, sweepers, and bearers, and they generally follow some relation or fellow villager who has preceded them to this El Dorado.

8. The tea districts and the colonies generally known as "Mirich" (Mauritius) get very few men from Sarun, and the figure of the recruiter is seldom seen. The few who do go to the labour districts go privately following some friend or relation, while my experience of the emigrants over sea is that they are usually people who, for some reason or other, find absence from their village advisable. A few do go however. Mr. Reid of Moniara quotes the case of a man in his *dehat* who has returned from Natal with Rs. 10,000. In another part of the district two coolies from the Mauritius, husband and wife, brought back a sum of Rs. 3,500, which proved a veritable Pandora's box to them.

9. On the whole, however, the quasi-permanent emigrants do not contribute one-tenth of the Sarun men who may be found in the cold weather scattered all over Upper India. These are mostly mere winter visitants, and to them I now turn.

10. Even in a district so purely agricultural as this, there is not constant employment in the fields for all its swarming population except at one season of the year. The first season of agricultural leisure (to follow the order of the Hindu year) is when the *rubbi* is sown: this is usually accomplished by the end of Kartic (middle of November), and then nothing has to be done except by the poppy cultivators till Phagun-Chait when the *rubbi* has to be cut (March and April). Moreover, the indigo manufacturing season is over and cattle and men all require rest. But even in the *rubbi* harvest all the men of a family are not required, for the light crops of an Indian harvest are gathered very largely in this district by women and children. Consequently there is no work for all the men till the rain falls, when the lands have to be prepared and the *bhadai* and the rice sown, and when this is done it is time to commence once more the cutting and carting of indigo for manufacture.

11. Seeing, then, that their presence at home is absolutely necessary only from June till November, an immense number of Sarun men spend the months from December to May elsewhere. As soon as the *rubbi* is sown, the exodus begins. Formerly it was confined to the lower classes, but of late years it has been shared by all. Three great characteristics, besides that of brevity, distinguish this emigration from the other, viz., the emigrants go in other directions, all classes go, and hardly any women go except to very near-at-hand places.

12. The destination of a vast proportion of the winter emigrants is "the East" as they themselves call it, and when pressed for further detail it will be found that this means Purneah and Bhagulpore in the Bhagulpore Division, Bogra, Rungpore and Darjeeling in the Rajshahye Division; or further east still, beyond Calcutta and Howrah—the districts of Dacca and Mymensingh. Field labour of the simplest description is the object of these men, such as digging and cleaning tanks, repairing roads, making railway embankments and harvesting the winter rice crop. When women go they either work with their husbands, or else earn an income by grinding corn for the Banias. Some few follow the homely slighted Kahar's trade; while the great majority of those who go to Calcutta and Howrah work as common coolies in the streets, or as mill hands in the mills round the metropolis. The earthwork of the Assam-Bihar Railway through Purneah, and of the Northern Bengal Railway in Rungpore, Bogra and Dinagepore, has been largely constructed by Sarun men, and the preparation of the Mymensing-Dacca Branch of the Eastern Bengal Railway attracted a considerable number who now repeat their annual visit to cut the jute in Mymensing and load it in Dacca and Naraingunge.

13. The result of many enquiries seems to show that these emigrants, provided that they keep their health, make about Rs. 50 or Rs. 60 each as profit. Part of this is sent home by money-order when half of their stay is over, and the remainder they bring with them in May and June. Out of this the mahajan has to be paid who advanced them the money necessary for their railway or road expenses and supplied the immediate wants of the family at home till remittances arrived from the eastward. I calculate, therefore, that a net profit of Rs. ■ or Rs. 40 is about what an ordinarily fortunate man makes over the trip. But the proviso quoted above is a very important one, and it is significant how universal is its introduction into all conversations on the subject. Fever is what the Behari fears in Bengal, and the fear of it is another potent inducement driving him home before the rains set in.

14. Mr. Hodding of Burhoga states that a native in his district has started an emigration agency. He charges Re. 1 a head for his services and interest at 25 per cent. on money advanced. In consideration of these payments he gives all information as to route, organizes parties, and lends money merely on personal security. He is said to be doing a good business.

15. The above facts, based mostly on the statements of planters and others, are fully borne out by the figures of the census and the statistics of the Postal Money-order Department.

16. On the 17th February 1881, the number of Sarun born men found in other districts of these provinces was 124,211, and they were most numerous in the following districts:—

Chumparan	...	44,885	Purneah	...	2,824
Mozufferpore	...	10,986	24-Pergunnahs	...	2,798
Calcutta and Suburbs	...	9,081	Shahabad	...	2,204
Rungpore	...	7,269	Howrah	...	2,112
Patna	...	6,813	Dinagopore	...	2,068
Mymensingh	...	5,124	Monghyr	...	1,979
Durbhanga	...	3,593	Maldah	...	1,712
Bhagulpore	...	3,335	Tipperah	...	1,534

17. Omitting the other districts of the Patna Division between which and Sarun there is of course a constant coming and going, it will be seen that the districts stand in the following order:—

Calcutta and Suburbs,	Bhagulpore,	Dinagopore,
Rungpore,	Purneah,	Monghyr,
Mymensingh,	24-Pergunnahs,	Maldah,
	Howrah,	Tipperah,

and this supports very closely the statements of local experts. Still further confirmation to them is afforded by an examination of the comparative figures for male and female emigrants. In Calcutta and the Suburbs and in Howrah, where, as I have said, it is more common for emigrants to settle for some time, the proportion of women to men is 1 in 4, and in the 24-Pergunnahs it is 1 in 5; while in Dinagopore and Rungpore it is 1 in 10 and in Mymensingh, which contributes many boatmen, 1 in 41. In Purneah, Bhagulpore, Maldah and Monghyr, which are districts nearer home, the proportion is from 1 in 2½ (Bhagulpore) to 1 in 8 in Maldah.

18. The statistics of the Postal Department afford similar information. By the courtesy of that department the registers of all money-orders paid in Sarun between the 1st January and 31st December 1889 were placed at my disposal, and I had them tabulated under my supervision.

The total amount paid away in that period was Rs. 11,22,350, and deducting the sum of Rs. 82,056, paid on orders issued from post-offices in the Sarun district, and which represent only local remittances, there remains a sum of Rs. 10,40,294 paid into the district from outside.

19. How much of this sum was sent in the way of family remittances, and how much in the course of trade or business, it is obviously impossible to say; but it is to be remembered that the money-order system has not yet touched that of remittance by *haundi* and cheque, as means of adjusting commercial transaction, and it is to be noticed that the general average value of each of these money-orders was less than Rs. 20. When it is recollected also that whatever mercantile remittances took place were probably for largest sums, thus raising the general average, the conclusion seems incontrovertible that a vast majority of these orders were for very small sums and almost certainly family remittances.

20. I have tabulated in an appendix the localities from which these money-orders issued, and if the figures do not absolutely prove that Sarun men travel all over India, they show that they have correspondents all over the Empire.

21. The following is the order in which the different revenue divisions of these provinces stand in respect of their remittances, and lower down some district figures will be given:—

	Rs.		Rs.
Calcutta	1,44,935	Chittagong Division	12,766
Burdwan Division	92,144	Patna (excluding Sarun)	1,52,967
Presidency	72,818	Bhagulpore Division	88,894
Rajshahye	1,62,673	Oriasa	2,287
Dacca	84,376	Chota Nagpore	15,941

The Rajshahye Division, it will be seen, is far ahead, and exceeds even the Calcutta remittances and those from the Patna Division, for it contains the districts of Darjeeling, Julpigoree and Rungpore. The Burdwan Division owes its high position to the figures for Hooghly and Howrah, the Presidency Division to the inclusion of the 24-Pergunnahs, and those of Dacca and Bhagulpore to the figures respectively for Mymensingh and Purneah.

22. Taking the districts in order, the first 16 are as follows:—

	Rs.		Rs.
Calcutta	1,44,935	Purneah	31,086
Darjeeling	65,548	Rungpore	29,595
Chumparan	51,671	Mozufferpore	25,274
Mymensingh	47,884	Dacca	23,182
24-Pergunnahs	45,649	Durbhanga	22,782
Julpigoree	40,507	Patna	22,325
Howrah	40,461	Bhagulpore	20,311
Hooghly	35,756	Monghyr	18,727

23. Omitting, as in paragraph 17 above, the other districts of the Patna Division, the order is as follows:—

Calcutta.	Julpigoree.	Rungpore.
Darjeeling.	Howrah.	Dacca.
Mymensingh.	Hooghly.	Bhagulpore.
24-Pergunnahs.	Purneah.	Monghyr.

A reference back to paragraph 17 will show that the home districts eliminated in each case are the same, viz., Chumparun, Measurpore, Patna, Durbhunga, and in the emigrant list only Shahabad.

24. But the close similarity will be all the clearer if the two lists are placed in juxtaposition as below, when it will be noticed that out of the 15 names which appear, eight are common to both lists and only seven appear in only one list, viz., Dinagepore, Maldah and Tipperah in the census list, and Darjeeling, Julpigoree, Hooghly and Dacca in the other—

Districts arranged by census figures.

Calcutta and Suburbs.  
Rungpore.  
Mymensingh.  
Bhagulpore.  
Purneah.  
24-Pergunnahs.  
Howrah.  
Dinagepore.  
Monghyr.  
Maldah.  
Tipperah.

Districts arranged by postal money-orders.

Calcutta.  
Darjeeling.  
Mymensingh.  
24-Pergunnahs.  
Julpigoree.  
Howrah.  
Hooghly.  
Purneah.  
Rungpore.  
Dacca.  
Bhagulpore.  
Monghyr.

25. I do not know that much more remains to be said on the subject, except that I would draw attention to the figures for Assam in the appendix as bearing out my statement that very few Sarun men go to the Assam tea districts. The whole of Assam sends only Rs. 87,183, and there is only one district, viz., Goalpara, which sends more than Rs. 10,000.

26. The Burmah figures also are significant, and the total amounts to Rs. 46,951, of which Rs. 22,692, or nearly half, comes from Rangoon alone. It is also interesting to note that of the whole sum, only Rs. 4,908 was paid in the Sewan circle, thus leading to the conclusion that an appreciation of Burmah and its advantages as a colony has not yet reached into the more distant part of the district. It is also to be noted that nearly all the villages which send recruits to the army and the Burmah Police are in the south and east of the district.

27. Over the passenger statistics in the half-yearly revenue reports of the Bengal and North-Western Railway I have spent a good deal of time without much result. I had hoped to get figures showing month by month the passenger traffic out of the district and into the district, and the places whither and whence our railway passengers travelled. But I found that the preparation of these statistics was so elaborate and expensive an undertaking that it had to be abandoned. From the abstracts given in the reports I find that the inward passenger traffic by Digha Ghat is greater in the second-half year than in the first (Sonopore no doubt accounts for some of this), and that the outward passenger traffic, which, if many Sarun emigrants went by train, would be much larger in the second-half year than in the first, is in reality a good deal smaller, even though it includes the visitors returned from Sonopore.

28. This result is disappointing to me, as I had expected to find further proof in these figures of what I have already pointed out as a law of emigration; but it fully supports the allegations of many of my informants in the district, viz., that a vast majority of the Sarun emigrants tramp every foot of the way out and home.

*Appendix showing the value and place of despatch of money-orders paid in Sarun in 1889.*

	Rs.
Calcutta	1,44,986
Lower Provinces (excluding Calcutta and Sarun)	6,87,701
Assam	87,183
Burmah	46,951
North-Western Provinces and Oudh	47,340
Central Provinces	4,545
Punjab	5,825
Rajputana	3,437
Central India	1,262
Sindh and Beluchistan	285
Mysore	379
Ooorg	150
Madras	3,711
Bombay	6,640
<b>Total</b>	<b>10,40,284</b>

J. A. BOURDILLON,  
Magistrate.

## Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 6th December 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
<b>BENGAL.</b>			
<i>Western Districts.</i>			
Burdwan Div.	1 Burdwan Dec. 6, '90	Nil	Weather—bright and cold. <i>Amun</i> paddy being reaped with good outturn. <i>Rabbi</i> crops doing well. Prices of common rice:— <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: right;"> <i>Srs.</i>  Sudder ... .. 167  Culna ... .. 18  Cutwa ... .. 19½  Ranigunge ... .. 17 </div> <div style="font-size: 2em; line-height: 1;">}</div> <div style="text-align: left;">per rupee.</div> </div>
	2 Bankura " 6, '90	Nil	Weather—bright and cold. <i>Amun</i> harvest has commenced. <i>Rabbi</i> eaten by locusts in places. Such lands have been re-sown. Another swarm of locusts has just passed over the Sudder station from south-west to north-east. The size and colour of the insects are the same as of those that appeared on the 21st ultimo. Common rice selling at 20 seers per rupee at Sudder and 20½ seers at Bissenpore.
	3 Birbhum " 6, '90	NE	Weather—seasonable. The crops are being gathered in. Price of rice from 17 to 24 seers per rupee.
	4 Midnapur " 6, '90	Nil	Weather—seasonable; growing colder. <i>Amun</i> rice being generally reaped; about 12 annas outturn expected. Prices of common rice:— <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: right;"> <i>Srs.</i>  Sudder ... .. 16  Tumlook ... .. 10  Ghatal ... .. 18  Contai ... .. 18 </div> <div style="font-size: 2em; line-height: 1;">}</div> <div style="text-align: left;">per rupee.</div> </div>
	5 Hooghly " 6, '90	Nil	Cold weather set in completely. Prospects of crops good. Outturn of rice may be expected to be 12 annas. Potatoes, peas, &c., expected to turn out well. Prices of common rice:— <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: right;"> <i>Srs.</i>  Sudder ... .. 13½  Serampore ... .. 13½  Jehanabad ... .. 10½ </div> <div style="font-size: 2em; line-height: 1;">}</div> <div style="text-align: left;">per rupee.</div> </div>
	6 Howrah " 6, '90	Nil	Weather—seasonable. Prospects of crops good. <i>Amun</i> crop being reaped. Coarse rice sells at 14½ seers per rupee.
PREMUNCE Div.	<i>Central Districts</i>		
	7 24 Pargha. Dec. 9, '90	Nil	Weather seasonable. Prospects of crops good. Harvesting of <i>amun</i> and sowing of winter crops still continue. Locusts which appeared in parts of the Barrackpore, Burdwan and Basirhat subdivisions are reported not to have done much damage to the crops. Price of common rice from 13 to 20 seers per rupee.
	8 Nuddea " 6, '90	Nil	Weather—seasonable. Harvesting of winter rice, <i>katai</i> , <i>mung</i> , and <i>til</i> going on. Prospects good.
	9 Khoolna " 6, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> in progress. Prospects favourable except in flooded area.
	10 Jessore " 6, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> and sowing of winter crops going on. Locusts have done some injury to the crops in all subdivisions except Jhaidah. Price of rice stationary, and prospects of standing crops good.
RAJSHAHY Div.	11 Moorsshedabad " 6, '90	Nil	Weather—cool. <i>Amun</i> being harvested. Prospects of <i>rabbi</i> favourable. <i>Katai</i> doing well.
	12 Dinagepur " 6, '90	Nil	Weather—seasonable. Prospects of crops continue good. Mustard sown to the extent of 10 annas. Price of rice unchanged.
	13 Rajshahy " 6, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> continues. Reaping of sugarcane commenced. Condition of standing crops good. Sowing of winter crops begun. Transplantation of tobacco not finished.
	14 Rangpur " 6, '90	Nil	Weather—cloudy with morning fogs. Great damage reported to have been done to the ripening paddy in many places by caterpillars. In other respects prospects are good all round.
	15 Bogra " 6, '90	SW	Weather—seasonable. State and prospects of crops satisfactory. Harvesting of winter rice and sowing of spring crops going on; some of the latter are growing well. Common rice selling at 18 seers per rupee.
	16 Pabna " 6, '90	Nil	Weather—seasonable. Prospects of crops continue good. <i>Amun</i> being harvested. Mustard and tobacco sowings going on. Prices stationary.
	17 Darjeeling " 6, '90	Nil	Weather—cold and misty. Winter rice being harvested. In the hills <i>bora marna</i> and <i>fajar</i> doing well. Prospects good. <i>Aghani</i> rice in Terai now estimated at 16 annas.
	18 Jalpigora " 6, '90	Nil	Weather—seasonable. <i>Haimanti</i> paddy being cut; about 15 annas outturn expected. Sowing of mustard and tobacco going on. No change in the price of rice.



No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
<b>BENGAL—continued.</b>			
<i>Eastern Districts.</i>			
<b>DAOGA DIV.</b>	19 Dacca Dec. 6, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> going on. Winter crops being sown. In the <i>Monowardi mang</i> , <i>kalai</i> , and other <i>rabbi</i> crops reported to have been damaged by locusts. Price of common rice from 13 to 17 <i>seers</i> per rupee.
	20 Farreedpur „ 6, '90	Nil	Weather—seasonable. Harvesting of <i>amun</i> in progress. Sowing of winter crops will shortly be finished. Common rice selling at from 14 to 15 <i>seers</i> per rupee. Locusts appeared again on the 3rd instant.
	21 Backergunge „ 6, '90	Nil	Weather—cold and seasonable. State and prospects of crops good. Harvesting of <i>amun</i> commenced. Common rice selling at 13½ <i>seers</i> per rupee.
	22 Mymensingh „ 6, '90	Nil	Weather—mornings foggy; days clear, but occasionally cloudy. Reaping of <i>amun</i> paddy has begun. <i>Rabbi</i> crops doing well. Sugarcane ripening. Coarse rice sells at 10½ <i>seers</i> per rupee.
<b>CHITTAGONG DIV.</b>	23 Chittagong „ 9, '90	Nil	Weather—seasonable. Cultivation of vegetable crop nearly over. Harvesting of early winter rice continues. State and prospects of <i>amun</i> very good. Prices steady.
	24 Noakholly „ 6, '90	Nil	Weather—seasonable. Reaping of <i>amun</i> and sowing of <i>rabbi</i> crops continue. Prospects good.
	25 Tipperah „ 6, '90	Nil	Weather—cold and sunshiny. <i>Amun</i> being cut. Cold-weather crops doing well.
	26 Chittagong Hill Tracts „ 4, '90	Nil	Weather—cold with foggy mornings throughout the week. Gathering of cotton continues. Mustard and other cold-weather crops progressing. Harvesting of late rice crop commenced. Common rice being sold at 11 <i>seers</i> of chittacks per rupee.
<b>BEHAR</b>			
<b>PANNA DIV.</b>	27 Patna „ 6, '90	Nil	Weather—cold. Harvesting of paddy in progress. <i>Bahar</i> in flower. <i>Rabbi</i> crops look well. Prospects of poppy continue good. Prices of food-grains show a tendency to fall.
	28 Gaya „ 6, '90	Nil	Weather—cold. Harvesting of paddy continues. Prospects of <i>rabbi</i> and poppy favourable. Prices of food-grains falling.
	29 Shahabad „ 6, '90	Nil	Weather—cool and bright with light west winds. State of all crops excellent. Harvesting of paddy continues. Price of rice falling.
	30 Durbhunga „ 6, '90	Nil	West winds prevailing. Harvesting of rice crop in progress. <i>Rabbi</i> crops have germinated well. Tobacco and <i>rahar</i> promising. Weather favourable for poppy plants. Price of common rice varying from 17 to 18 <i>seers</i> per rupee.
	31 Monafferpur „ 6, '90	Nil	Weather—seasonable. Prospects of all crops continue good. Harvesting of <i>aghasi</i> rice commenced. Poppy doing well.
	32 Saran „ 6, '90	Nil	Weather—colder than before. <i>Rabbi</i> sowings completed; prospects excellent. Poppy sowings approaching completion. Paddy harvest commenced; cotton estimated in Sudder subdivision at 5 <i>annas</i> , in Saran 8 <i>annas</i> , and in Gopalgunge 14 <i>annas</i> .
	33 Champaran „ 6, '90	Nil	Weather—cool; occasionally cloudy. <i>Rabbi</i> and poppy sowings coming to a close; germination healthy and young plants doing well. Harvesting of paddy in progress; new rice has begun to come into the market. Prices tending to fall.
<b>BRABOURN DIV.</b>	34 Monghyr „ 6, '90	Nil	Weather—seasonable. Harvesting of winter rice in progress. <i>Rabbi</i> sowings still going on. Prospects continue favourable.
	35 Bhagalpore „ 6, '90	Nil	Harvesting of rice progressing fairly.
	36 Purneah „ 6, '90	Nil	Weather—Nights cool. Sun getting less warm during the day. <i>Aghasi</i> rice still being harvested. Prospects of <i>rabbi</i> crops favourable. Mustard doing well.
	37 Maldah „ 6, '90	Nil	Weather—fine and cool. Strong westerly wind began to blow. Harvesting of winter rice going on. Other standing crops doing well. Price of common rice stationary.
	38 Sonthal Perga „ 6, '90	Nil	Weather—seasonable. Harvesting of <i>aghasi</i> crop still going on. Sugarcane pressing has commenced in Deoghur. Prospects of crops good.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
<b>ORISSA.</b>			
ORISSA DIV.	39 Cuttack Dec. 6, '90	Nil	Weather—seasonable. Planting of tobacco going on. Prospects of <i>gura sarad</i> (late winter rice) good.
	40 Poores „ 6, '90	Nil	Weather—seasonable. <i>Laghu sarad</i> (early winter rice) being harvested. Late <i>sarad</i> ripening. <i>Dainu</i> crop being sown. Miscellaneous crops doing well. Price of common rice from 21 to 27 seers per rupee.
	41 Balasore „ 6, '90	Nil	Weather—seasonable. Winter rice being harvested. <i>Rabbi</i> crops, sugarcane, and mustard promising.
<b>CHOTA NAGPORE.</b>			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	42 Hazaribagh Dec. 6, '90	Nil	Weather—cold and seasonable. Harvesting of winter rice continues. <i>Rabbi</i> crops doing well. Prospects of poppy continue favourable.
	43 Lohardogga „ 6, '90	Nil	Weather—seasonable. Harvesting of winter rice continues. Rain badly wanted for <i>rabbi</i> .
	44 Singhbhum „ 6, '90	Nil	Weather—warm for the season and somewhat cloudy. Harvesting of winter rice continues with excellent results. Prospects of <i>rabbi</i> also excellent.
	45 Manbhum „ 6, '90	Nil	Weather—fairly cool. Rice crop may be said to be a bumper one. Locusts have been seen in the district for some 3 or 4 days past; it is feared that some damage has been done to the <i>rabbi</i> crops.

Published for general information.

CALCUTTA; REVENUE DEPT.,  
The 9th December, 1890.

P. NOLAN,  
Secy. to the Govt. of Bengal.

## PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
BENGAL.																			
Western Districts.																			
1	Burdwan	12 8	14 0	14 8	...	...	...	12 12	12 12	11 10	16 11	16 2	14 10	...	...	...			
2	Bankura	13 12	13 12	13 12	37 0	18 0	14 0	17 8	17 0	15 0	20 0	20 0	19 11	...	...	...			
3	Eschbloom	16 8	17 4	15 0	...	...	...	13 8	13 8	12 0	19 0	16 8	15 0	...	...	...			
4	Midnapore	10 8	10 8	13 8	...	...	...	15 0	11 0	12 0	18 0	16 0	14 0	...	...	...			
5	Hughly	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	12 0	...	...	...			
6	Howrah	...	...	...	...	...	...	10 0	10 0	8 8	14 8	14 0	13 11	...	...	...			
Central Districts.																			
	Calcutta	12 14	13 8	13	18 1	17 10	17 7	8 12	8 10	8 1	13 1	13 8	13 0	16 0	16 0	16 0			
7	24-Pargunnahs	13 0	13 0	14 0	17 0	18 0	16 0	8 0	8 0	7 8	15 0	16 0	15 0	...	...	...			
8	Nuddes	15 4	15 10	14 14	16 0	17 12	...	11 13	11 8	10 10	15 9	15 4	13 6	...	...	...			
9	Kheolna	...	...	...	...	...	...	12 8	12 8	11 4	14 0	15 0	12 8	...	...	...			
10	Jessore	12 8	13 0	13 5	...	...	...	11 8	11 0	9 2	14 8	12 0	13 0	...	...	...			
11	Moorshedabad	16 0	16 0	16 0	...	...	...	10 0	10 0	10 0	16 6	16 0	12 0	...	...	...			
12	Dinapore	14 11	15 10	15 12	20 0	18 0	16 0	14 4	15 0	12 0	18 0	18 0	16 0	...	...	...			
13	Rajahmbye	16 12	16 8	1 0	24 0	24 0	20 10	12 12	12 12	9 12	16 2	15 15	12 0	...	...	...			
14	Rangpore	13 5	13 5	13 2	...	...	...	9 6	9 6	9 7	14 8	13 5	10 5	...	...	...			
15	Bogra	15 0	15 0	18 8	...	...	...	18 8	12 0	12 0	16 8	15 1	13 8	...	...	...			
16	Pubna	18 0	18 12	16 9	...	...	...	7 6	7 6	7 2	15 12	15 8	14 4	...	...	...			
17	Darjeeling	8 0	8 0	11 0	10 0	10 0	10 0	5 0	5 0	5 0	15 0	13 0	12 0	...	...	...			
18	Julpigoree	13 0	13 0	12 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	15 0	...	...	...			
Eastern Districts.																			
19	Dacca	12 0	12 0	13 0	14 0	14 0	20 0	14 0	13 0	9 12	15 0	14 0	11 0	...	...	...			
20	Farrukdpore	16 0	16 0	18 0	25 0	25 0	...	12 0	12 0	8 0	14 0	14 0	10 0	...	...	...			
21	Backergunge	...	...	...	...	...	...	12 4	12 4	10 0	13 5	18 4	16 0	...	...	...			
22	Mymensingh	11 4	11 4	10 0	...	...	...	10 0	10 0	8 14	16 0	12 12	12 4	...	...	...			

A. In subdivisions retail prices of salt per rupee are:—Culina 10 seers, Cutwa 10 seers 5 chittacks, and Hingsegunge 10 seers.

B. At Rampore Hunt retail price of salt 1½ seers per rupee.

C. In subdivisions retail prices of salt per rupee are:—Culina 9 seers, Tinsuk 8 seers, and Ghatal 11 seers.

D. In subdivisions retail prices of salt per rupee are:—Burmahpore 10½ seers and Jahanabad 11 seers.

E. In subdivisions retail prices of salt per rupee are:—Burmah 10 seers, Barisal 10 seers, Diamond Harbour (Kulpirat) 8 seers, Barrackpore 9 seers 2 chittacks, and Durr-Durr 10 seers.

F. In subdivisions retail prices of salt per rupee are:—Kushtia 10 seers, Mokerpore 11 seers, Choudanga 10 seers, and Ranghat 10 seers.

G. In subdivisions retail prices of salt per rupee are:—Ratkhira 10 seers and Baglhat 8 seers.

H. In subdivisions retail prices of salt per rupee are:—Jhenida 9 seers, Magura 10 seers, Narail 9 seers, and Bongaon 10 seers.

MAHUA OR FLEET  
(Eleusine Coropora.)

Next preceding re- turn.	
Corresponding re- turn of last year.	
Present return.	
Next preceding re- turn.	
Corresponding re- turn of last year.	

[illegible][illegible]

Present return.	HE ANTON ON KASIM, FALLA KULLER, (Second division.)	GHAR, CHIBOLA, K. OR SUBVANS
Next preceding re- turn.		(Clear printing)
Corresponding re- turn of last year.		
Present return.		
Next preceding re- turn.		

[illegible][illegible]

1900	1910	1920	1930	1940	1950
1.8	2.8	3.6	4.1	4.5	4.8
1.0	0.15	0.11	0.10	0.09	0.08
1.5	4	1.7	0.1	0.08	0.07
1.5	0.15	0.11	0.10	0.09	0.08



PRICES-CURRENT (revised) of Food-grains, Firewood and Sulf in the Headquarters

DISTRICTS.		QUANTITIES PER RUPEE IN	
Present return.	Next preceding return.	WHEAT.	
Corresponding return of last year.			
Present return.	Next preceding return.	BARLEY.	
Corresponding return of last year.			
Present return.	Next preceding return.	RICE, BEST SORT.	
Corresponding return of last year.			
Present return.	Next preceding return.	RICE, COMMON.	
Corresponding return of last year.			
Present return.	Next preceding return.	JOWAR OR CHOLU. (Bergium Vulgare.)	
Corresponding return of last year.			

[illegible][illegible]

## ORIGINS

[illegible]

## CHOTA NAGPORE

Black-Tail Plover

[illegible]

8. At 40% a 100% retail price of salt is more profitable.

**At Penn International, Inc. of male 00 women per square,**

10488817 *Journal of Interpersonal Violence* 2019, Vol. 34, No. 10, 3067-3082. doi:10.1177/0886260519846006

It is not uncommon for an author to say: "I have not read this book." At the same time, it is not uncommon for an author to say: "I have not read this book."

(3)  $\Delta 1.51177 \text{ \AA}$ ,

*The 0th December, 1880.*



SEERS OF SO TOLAH.

BATHA OR COMBAT,  
(Presented by the  
diocese.)

MARGA OR RADI,  
(Presented by the  
diocese.)

Present return.	
Next preceding re- turn.	
Corresponding re- turn of last year.	
Present return.	
Next preceding re- turn.	
Corresponding re- turn of last year.	

S. Ch. S. Ch. S. Ch. S. Ch. S. Ch. S. Ch.									
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100

100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100

100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100

100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100

RAJAKI OR KARUN,  
ITALIAN MILLET.  
(Sesepia indica.)

ORIZ, CHINA,  
CHOWA, KADALAY  
OR SHAWA.  
(Clav. ardetum.)

Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.
-----------------	-----------------------------	---	-----------------	-----------------------------	---

A. Ch. B. Ch. S. Ch. & Ch. S. Ch. S. Ch.					
...	...	12 8	12 8	12 8	...
...	...	...	13 0	13 0	10 0
...	...	...	16 0	16 0	13 6
...	...	...	...	...	...

17 0	16 0	19 0	19 8	19 0	20 0
16 0	15 0	15 0	18 0	19 0	19 0
...	...	...	19 0	20 0	22 0
...	...	...	18 0	19 12	22 15
...	...	...	20 0	16 0	20 0
14 0	14 0	14 0	17 8	17 4	20 8
...	...	...	19 0	19 0	22 0
16 12	14 11	...	21 0	21 0	24 2
...	...	...	20 8	20 8	19 9
...	...	...	18 0	18 0	20 0
...	...	...	20 0	20 0	16 0
...	...	...	17 0	16 0	16 0

...	...	14 7	14 7	20 5
...	...	15 12	14 7	17 1
...	...	14 0	14 0	14 0

...	...	17 0	17 0	15 0
...	...	14 8	14 0	13 8
...	...	16 0	16 0	10 0
...	...	15 0	16 0	12 12

Station Basars of the Districts of Bengal on the 30th November, 1890—(concluded).

												WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
INDIAN CORN OR MAIZE. (Zea Mays.)			ARHAR OR TUR. CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.			
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
...	...	...	...	...	...	110 0	110 0	100 0	10 0	10 0	9 0	3 14 0	3 14 0	4 0 0	Chittagong.
...	...	...	8 0	8 0	8 0	...	...	...	9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakhully.
...	...	...	10 0	11 7	8 0	...	...	...	10 0	10 0	8 14	4 0 0	4 0 0	4 8 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	4 8 0	Chittagong Hill Tracts.
Eastern Districts—concluded.															
19 8	19 0	23 0	15 8	...	22 0	120 0	130 0	130 0	9 8	9 8	8 8	3 9 6	3 10 0	3 14 0	WEHAR. Patna.
...	...	...	17 8	17 0	10 0	160 0	160 0	160 0	10 0	10 0	9 2	4 2 0	4 2 0	4 2 0	Gya.
...	...	...	18 0	17 0	21 0	160 0	120 0	160 0	10 0	10 0	10 0	3 15 0	3 15 0	3 15 0	Shahabad.
20 14	19 12	25 4	17 0	17 0	30 4	160 0	160 0	200 0	11 0	11 0	11 0	3 8 0	3 8 0	3 8 0	Durbhunga.
19 0	18 0	22 0	17 0	18 0	22 0	160 0	160 0	160 0	10 8	10 0	10 0	3 12 0	4 0 0	4 0 0	Morsherpore.
18 0	18 0	21 8	16 8	16 4	20 8	160 0	160 0	160 0	10 4	10 4	9 8	3 11 8	3 14 0	4 2 0	Saran.
22 0	20 0	25 0	17 0	17 0	17 0	160 0	160 0	160 0	10 0	10 0	9 8	3 13 0	3 13 0	4 2 0	Chumparun.
21 0	21 0	25 4	16 12	17 13	18 14	168 0	168 0	147 0	10 8	9 15	11 12	3 10 8	3 13 0	3 14 8	Monghyr.
21 7	21 7	24 0	17 11	17 11	17 10	161 8	161 8	164 0	10 8	10 8	10 1	3 11 0	3 11 0	4 0 0	Bhagulpore.
...	...	...	14 0	14 0	17 0	181 0	180 0	120 0	9 0	9 0	10 4	4 7 0	4 7 0	3 5 4	Purneah.
...	...	...	...	...	...	120 0	120 0	160 0	9 0	9 0	8 0	4 0 0	4 0 0	5 0 0	Maldah.
24 0	21 0	27 0	20 0	23 0	17 0	200 0	240 0	200 0	9 0	9 0	9 4	4 0 0	3 14 0	4 0 0	Sonthal Pergba.
ORISSA.															
...	...	...	18 8	18 6	18 8	80 0	80 0	80 0	11 0	11 0	11 0	3 12 0	3 12 0	3 12 0	Cuttack.
...	...	...	17 12	17 12	16 12	80 0	80 0	80 0	9 13	9 13	11 13	3 12 0	3 12 0	3 6 0	Pooree.
...	...	...	...	...	...	160 0	160 0	160 0	10 0	10 0	9 0	3 14 0	3 14 0	4 2 0	Balasore.
CHOTA NAAGPORE.															
South-West Frontier Agency.															
25 0	25 0	30 0	20 0	20 0	17 0	240 0	240 0	240 0	8 0	8 0	8 0	4 2 0	4 2 0	4 8 0	Nazaribagl.
28 8	28 8	40 0	24 0	24 8	15 4	149 0	140 0	140 0	9 0	9 0	8 8	4 2 0	4 2 0	4 8 0	Lohardugga.
39 0	30 0	32 0	24 0	18 0	12 0	240 0	240 0	200 0	8 0	9 0	7 0	5 0 0	4 6 0	5 8 0	Singbhoom.
26 0	20 0	32 0	10 0	18 0	15 0	100 0	100 0	200 0	10 0	9 14	0 0	3 14 0	3 14 0	4 4 0	Manbhoom.

Y In subdivisions retail prices of salt per rupee are :—Bengal 9½ seers and Jamui 9 seers.  
Z At Kishengunge retail price of salt 8 seers per rupee.  
Z1 In Khordha subdivision retail price of salt 10 seers per rupee.  
Z2 At Bindruk retail price of salt 8 seers per rupee.  
Z3 At Daltongunge retail price of salt 9 seers per rupee.  
Z4 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,  
Secy. to the Govt. of Bengal.

## PRICES-CURRENT (wholesale) of Food-grains, Firewood, and S

Number.	MARCH.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
1	Calcutta ..	R. A. P. 3 18 4	R. A. P. 2 12 10	R. A. P. 2 11 11	R. A. P. 1 15 3	R. A. P. 3 0 2	R. A. P. 2 0 10	R. A. P. 4 4 9	R. A. P. 4 5 10	R. A. P. 4 10 9	R. A. P. 2 12 10	R. A. P. 2 12 3	R. A. P. 2 12 3
2	Barrington ..	1 12 0	1 12 0	2 3 0	..	..	..	4 10 0	4 10 0	5 0 0	2 4 0	3 4 0	3 4
3	Dacca ..	3 4 0	3 4 0	3 0 0	3 12 0	2 12 0	1 15 0	2 12 0	3 0 0	4 0 0	2 10 0	2 12 0	3 9
4	Narrington ..	..	..	..	..	..	..	3 0 0	3 0 0	4 0 0	2 12 0	2 12 0	3 12
5	Chittagong ..	3 8 0	3 4 0	3 12 0	..	..	..	3 8 0	3 8 0	4 8 0	2 8 0	2 8 0	2 10
6	Pacca ..	{ 2 4 0 2 8 0 } 2 8 0	{ Rod. 2 5 0 2 8 0 } 2 8 0	{ 2 5 7 2 10 8 } 2 10 8	2 0 0	2 0 0	1 12 0	3 8 0	3 9 0	3 12 0	2 2 6	2 5 6	2 3
7	Bahara ..	2 8 0	1 8 0	2 8 0	3 0 0	3 0 0	3 0 0	3 0 0	3 0 0	3 4 0	1 13 0	1 13 0	2 4
8	Pacca ..	..	..	..	..	..	..	..	..	..	1 14 3	1 14 3	2 4
9	Outat ..	3 4 0	3 0 0	2 1 0	..	..	..	2 10 0	2 10 0	3 0 0	1 11 0	2 3 0	2 3

Calcutta,  
The 9th December, 1890.

PRICES PER MAUND

JOWAR OR CHOLU. ( <i>Sorghum Polgaro.</i> )			BAJRA OR CUMBU. ( <i>Pennisetum typhalo-</i> <i>dum.</i> )		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.
2 4 02	2 3 82	2 4 02	2 11 03	5 72	14 8
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	1 10 0	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...
...	...	...	...	...	...







## Meteorological Report of the Province

METEOROLOGICAL DIVISION.	DISTRICT.	Representative stations.	STATION OBSERVATIONS.																
			AIR PRESSURE.					TEMPERATURE.						HUMIDITY.		CLOUD.			
			Highest, 9 a.m., barometric reading of month.	Lowest, 8 a.m., barometric reading of month.	Mean, 8 a.m., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 8 a.m., humidity.	Variation from normal mean.	Mean amount, 8 a.m.	Variation from normal mean.		
			Highest, 9 a.m., barometric reading of month.	Lowest, 8 a.m., barometric reading of month.	Mean, 8 a.m., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 8 a.m., humidity.	Variation from normal mean.	Mean amount, 8 a.m.	Variation from normal mean.		
Orissa.	Pooree	Pooree, Bhubaneswar, Balasore, Puri, Cuttack	30.136	29.908	30.040	30.039	—	85.7	61.8	83.5	81.7	77.5	—	86	—	4.0	—		
	Cuttack	Cuttack	30.144	29.927	30.047	30.043	+0.75	86.2	61.9	81.5	81.3	78.1	—1.0	82	—	2.6	—		
	Balasore	Balasore	30.137	29.916	30.054	30.050	+0.40	85.8	61.5	81.5	81.5	78.0	—1.1	80	—	2.6	—		
	South-West Midnapore and South 24 Parganas	Saunty Island	30.137	29.922	30.034	30.033	—0.48	86.7	60.9	80.6	80.0	73.3	+0.5	81	—	2.8	+0.4		
SOUTH-EAST INDIA.	Midnapore	Midnapore	30.024	29.815	29.916	29.915	+0.30	86.8	66.8	85.9	83.0	72.8	+0.6	70	—	1.3	—		
	24 Parganas, Howrah, and Hooghly.	Calcutta	30.141	29.946	30.040	30.038	+0.68	86.3	67.3	80.3	82.7	71.6	—1.7	82	—	1.8	—1.7		
	Burdwan	Burdwan	30.085	29.856	29.980	29.985	+0.62	86.3	67.8	82.6	83.8	75.1	—0.8	77	—	2.0	—0.3		
	Bankura	Bankura	29.980	29.808	29.788	29.788	+0.60	86.1	66.1	82.7	81.4	73.1	+0.6	77	—	2.3	—		
SOUTH-EAST INDIA.	West Burdwan	Rangpur	29.918	29.803	29.740	29.740	+0.61	86.3	65.8	81.6	81.1	71.4	—0.9	78	—	1.6	—		
	Mooredahad	Berhampur	30.100	29.910	29.909	29.908	+0.58	86.1	66.2	80.6	81.4	72.0	—0.9	80	—	1.6	—0.6		
	Nudda	Krishnagar	30.119	29.910	29.914	29.914	+0.60	86.8	66.1	83.1	81.5	72.0	—0.9	79	—	2.3	—		
	Jessore and Khoulia	Jessore	30.133	29.920	29.925	29.925	+0.51	86.7	66.6	82.0	82.3	73.3	—1.6	81	—	2.6	—0.3		
SOUTH-EAST INDIA.	Chittagong	Chittagong	30.051	29.806	29.959	29.952	+0.52	86.2	61.9	82.4	81.2	74.3	+0.3	81	—	3.2	—0.1		
	Chittagong Hill Tracts	Dumagati	Observations not received.																
	Dachenganga	Barrack	30.110	29.937	29.981	29.983	+0.53	87.3	67.1	81.3	81.4	72.9	—1.6	84	—	1.3	—		
	Noakhali	Noakhali	30.118	29.950	29.913	29.908	+0.73	86.5	65.3	82.1	82.1	72.1	—	85	—	0.1	—		
SOUTH-EAST INDIA.	Furriedpore	Furriedpore	30.121	29.940	29.925	29.920	+0.70	87.0	65.6	80.6	83.0	71.8	—0.4	85	—	1.0	—		
	Dacca	Dacca	30.120	29.935	29.919	29.922	+0.61	86.4	67.3	82.6	83.8	73.3	—1.0	81	—	2.0	—0.1		
	Tipperah	Comilla	30.102	29.935	29.911	29.908	+0.66	86.4	63.9	82.0	81.3	71.8	—1.7	80	—	1.3	—		
	Mymensingh	Mymensingh	30.097	29.925	29.907	29.907	+0.57	86.7	63.6	80.6	81.6	71.1	—2.1	80	—	1.3	—		
SOUTH-EAST INDIA.	Rogra	Rogra	30.098	29.920	29.918	29.922	+0.57	86.3	63.4	80.3	81.4	70.9	—1.5	80	—	0.8	—		
	Phuba	Sarajunga	30.095	29.930	29.905	29.902	+0.45	86.0	64.7	80.8	81.1	71.8	—0.8	81	—	1.1	—		
	Bajshakye	Bangore Bazar	30.085	29.910	29.908	29.901	+0.51	86.0	67.8	80.2	83.3	71.8	+1.7	83	—	0.7	—		
	Maldah	Maldah	30.113	29.901	29.905	29.907	—	86.7	66.8	81.9	81.7	71.6	—	81	—	0	—		
SOUTH-EAST INDIA.	Dinapore	Dinapore	30.097	29.945	29.940	29.940	+0.14	86.8	66.2	81.4	80.6	71.0	+1.1	87	—	0.3	—		
	Bungpore	Bungpore	30.053	29.954	29.954	29.954	+0.30	86.2	66.4	81.1	81.1	70.9	+0.3	80	—	0.1	—		
	Jalpigore and Cooch Behar.	Jalpigore	30.055	29.905	29.977	29.974	+0.46	86.4	64.3	80.7	80.1	69.9	—0.6	80	—	0	—		
	Darjeeling Hill Tracts	Darjeeling	30.120	29.911	29.965	—	+0.60	86.0	67.0	84.0	81.0	68.0	+0.1	74	—	2.0	—0.3		
SOUTH-EAST INDIA.	Purneah and North Bhagalpore.	Purneah	30.047	29.905	29.945	29.978	+0.45	86.1	63.0	79.9	80.7	68.3	—1.1	82	—	0.5	—0.4		
	Mosulpore	Mosulpore	29.965	29.795	29.875	29.861	—	81.9	58.3	79.9	81.6	70.7	—	83	—	0.3	—		
	Darbhanga	Darbhanga	30.016	29.838	29.873	29.899	+0.60	83.9	69.0	80.7	80.3	70.0	—1.4	80	—	0.4	—0.6		
	Champaran	Motihari	29.980	29.790	29.858	29.887	+0.70	83.2	69.0	80.5	80.4	68.0	—0.3	85	—	0.0	—		
SOUTH-EAST INDIA.	Haras	Chupra	29.995	29.784	29.875	29.903	+0.51	84.6	67.6	80.4	80.1	71.3	+1.3	87	—	0.2	—		
	Bahabad	Dahree, Buxar, Arrah	29.850	29.824	29.721	29.705	+0.53	84.3	61.0	81.0	80.3	69.1	—0.2	78	—	1.3	—		
	Gya	Gya	29.778	29.725	29.777	29.776	—	84.2	61.1	81.6	80.7	69.8	—0.3	75	—	1.5	—		
	Patna	Patna	29.800	29.710	29.704	29.713	+0.64	84.4	61.8	82.1	80.3	70.2	—0.3	78	—	1.3	—0.3		
SOUTH-EAST INDIA.	South Bhagalpore and Monghyr.	Bhagalpore	30.015	29.863	29.901	29.905	+0.45	83.5	61.8	80.3	80.2	69.8	—0.8	68	—	1.0	—0.3		
	South Bhagalpore and Monghyr.	Bhagalpore	30.010	29.860	29.905	29.901	+0.50	83.3	61.5	80.3	80.1	69.8	+0.3	70	—	0.9	—		
	South Bhagalpore and Monghyr.	Naya Oomka	29.850	29.768	29.850	29.863	+0.10	82.6	62.5	80.5	80.2	69.9	—0.1	70	—	0.3	—		
	Baharibagh	Baharibagh	29.821	29.735	29.780	29.783	+0.30	79.2	62.0	77.2	80.8	67.0	+0.1	69	+1.0	3.4	0		
SOUTH-EAST INDIA.	Lohardugga	Lohardugga	29.805	29.735	29.769	29.765	+0.35	80.8	60.5	71.3	80.5	68.4	+0.5	68	—	0.7	—		
	Singbhoom	Chyabana	29.419	29.301	29.353	29.360	+0.61	85.5	61.5	84.0	80.5	73.5	+1.3	74	—	2.0	—		
	Assam	Nibagar, Dhubri, Sibsagar	29.895	29.805	29.763	29.755	+0.61	81.3	60.8	77.4	80.3	67.0	—1.5	84	—	4.0	+0.3		
	Assam	Assam	30.047	29.805	29.903	29.971	+0.30	83.7	65.0	78.6	82.3	70.0	—0.3	80	—	0.5	—0.6		
SOUTH-EAST INDIA.	Assam	Assam	30.053	29.807	29.960	29.971	+0.49	86.7	61.4	84.7	80.8	72.4	—1.8	80	—	4.6	+0.3		
	Assam	Assam	30.053	29.807	29.960	29.971	+0.49	86.7	61.4	84.7	80.8	72.4	—1.8	80	—	4.6	+0.3		
	Assam	Assam	30.053	29.807	29.960	29.971	+0.49	86.7	61.4	84.7	80.8	72.4	—1.8	80	—	4.6	+0.3		
	Assam	Assam	30.053	29.807	29.960	29.971	+0.49	86.7	61.4	84.7	80.8	72.4	—1.8	80	—	4.6	+0.3		

\* Mean of 25 days.

\* Mean of 25 days.

† " 20 "

† " 20 "

‡ " 15 "

‡ " 15 "

Bengal for the month of November 1890.

DISTRICT OBSERVATIONS.											Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
RAINFALL.					since 15th May 1890.								
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.				
1'82	5'36	-0'38	3'5	3'3	61'77	54'87	+11'10	93'9	88'9	Pooree Gopulpore False Point	Pooree	ORISSA.	
1'07	1'15	+0'08	2'2	2'1	63'04	50'93	+12'60	83'2	78'1	Cuttack	Cuttack		
0'87	0'89	-0'02	1'7	1'0	61'26	52'65	+8'63	79'1	74'6	Balsore	Balsore		
0'66	0'61	+0'05	2'0	1'4	66'20	61'61	+4'68	89'0	83'8	Sankar Island	South-West Midnapore and South 24 Pargannas.		
NH	0'22	-0'28	0'0	0'8	56'01	60'83	-0'65	86'0	70'5	Midnapore	Midnapore	SOUTH-WEST BENGAL.	
0'07	0'81	-0'84	0'8	1'1	55'18	50'87	+1'29	83'0	88'2	Calcutta	24 Pargannas, Howrah, and Hooghly.		
0'25	0'51	-0'06	0'7	0'7	61'41	46'13	+15'28	82'0	74'3	Burdwan	Burdwan		
0'01	0'47	-0'46	0'2	1'2	52'02	51'94	+0'08	77'3	70'4	Bankura	Bankura		
0'30	0'16	+0'14	1'3	0'5	63'03	51'59	+12'44	88'1	91'8	Raniganj	West Burdwan and Beerbhoom.	SOUTH-WEST BENGAL.	
0'33	0'36	+0'09	0'7	0'5	60'55	49'90	+10'65	82'1	77'3	Berhampore	Mooredabad		
0'04	0'32	-0'28	0'2	0'7	55'03	65'62	-10'41	81'4	70'7	Krishnagore	Nadua		
0'06	0'37	-0'31	0'1	1'0	55'33	52'20	+3'13	83'8	81'0	Jessore	Jessore and Khoolna		
1'37	2'14	-0'77	3'0	2'3	119'06	112'54	+6'52	101'5	105'7	Chittagong	Chittagong	SOUTH-WEST BENGAL.	
0'03	1'05	-1'02	1'0	2'0	75'82	70'70	+5'12	96'6	110'1	Dumra	Chittagong Hill Tracts		
NH	1'44	-1'42	0'0	1'8	68'10	72'77	-4'67	100'4	103'6	Harriss	Backergunge		
NH	2'53	-2'52	0'0	2'2	97'88	105'68	-7'80	107'0	103'3	Noakhali	Noakhali		
NH	0'39	-0'39	0'0	1'0	46'42	51'73	-5'31	78'0	84'9	Farrakka	Farrakka	SOUTH-WEST BENGAL.	
NH	0'77	-0'77	0'0	1'4	58'10	50'81	+7'29	95'8	86'0	Dacca	Dacca		
NH	0'73	-0'73	0'0	1'5	60'11	67'08	-6'97	91'2	84'1	Comilla	Tippurah		
0'17	0'23	-0'06	0'4	0'9	70'80	68'41	+2'39	92'4	88'3	Mymensingh	Mymensingh		
0'41	0'56	-0'15	1'0	0'7	78'99	51'91	+27'08	92'9	70'3	Sogra	Sogra	SOUTH-WEST BENGAL.	
0'27	0'27	+0'00	1'0	0'6	64'95	52'83	+12'12	89'0	79'1	Serajgonj	Pabna		
0'00	0'10	-0'10	1'0	0'6	75'80	62'81	+12'99	88'9	74'4	Rangpur	Rangpur		
0'05	0'18	-0'13	0'0	0'0	62'14	53'09	+9'05	88'6	81'7	Maldah	Maldah		
NH	0'13	-0'13	0'0	0'4	51'74	56'37	-4'63	76'8	70'8	Dinapore	Dinapore	SOUTH-WEST BENGAL.	
NH	0'10	-0'10	0'0	0'0	100'61	73'10	+27'51	100'0	75'0	Rangpur	Rangpur		
NH	0'08	-0'08	0'0	0'0	184'61	109'61	+75'00	112'8	98'4	Jalpaiguri	Jalpaiguri and Oooch Behar.		
0'07	0'30	-0'23	1'0	1'1	125'65	110'87	+14'78	131'1	110'2	Darjeeling	Darjeeling Hill Tracts.		
NH	0'06	-0'06	0'0	0'3	80'47	58'90	+21'57	77'4	68'6	Farrakka	Farrakka and North Bhagulpore.	SOUTH-WEST BENGAL.	
NH	0'08	-0'08	0'0	0'3	52'57	46'75	+5'82	74'0	58'7	Moulvibazar	Moulvibazar		
NH	0'06	-0'06	0'0	0'3	57'63	45'90	+11'73	72'2	56'0	Darbhanga	Darbhanga		
NH	0'03	-0'03	0'0	0'3	48'47	46'91	+1'56	67'0	62'1	Motihari	Chumpran		
NH	0'18	-0'18	0'0	0'4	23'60	41'38	-17'78	63'7	45'1	Chupra	Sarun	SOUTH-WEST BENGAL.	
NH	0'25	-0'25	0'0	0'5	40'89	35'31	+5'58	72'4	59'0	Dehree Buzar Arrah	Shahabad		
NH	0'24	-0'24	0'0	0'3	50'89	40'81	+10'08	70'5	55'4	Gya	Gya		
NH	0'19	-0'19	0'0	0'4	48'10	40'60	+7'50	68'8	40'0	Bankipore	Patna		
NH	0'18	-0'18	0'0	0'4	53'25	48'42	+4'83	74'5	64'2	Bhagulpore	South Bhagulpore and Monghyr.	SOUTH-WEST BENGAL.	
0'38	0'10	+0'28	0'0	0'0	62'64	46'36	+16'28	65'5	74'4	Naya Doocha	North Pargannas		
0'01	0'35	-0'34	0'4	1'1	46'46	46'19	+0'27	76'6	70'0	Basaribagh	Basaribagh		
NH	0'45	-0'45	0'0	1'0	47'01	47'40	-0'39	77'3	51'2	Ranchi	Lohardugga		
0'10	0'15	-0'05	0'0	0'0	41'53	46'22	-4'69	64'5	51'0		Manikpur		
NH	0'26	-0'26	0'0	1'0	33'94	50'48	-16'54	63'5	52'2	Chyabasa	Singbhum	SOUTH-WEST BENGAL.	
										Hibauri Bhubai Bikhar	Amara		

Table of Rainfall recorded at Station

Meteorological Division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CENTRAL	Pooree	Pooree	1'17	0'18	0'01	0'41	0'43	0'08														
		Khurda	0'30	0'00									0'17									
		Banour	0'40	1'78		0'31	1'00						0'20									
		Palas Point	1'40	1'35																		
		Op	2'25	0'40		0'08																
	Outback	Saipara	0'18			0'47	1'05	0'02	0'15													
		Pipli																				
		Jamshingpore	1'40																			
		Banki	3'01	2'07									0'17									
		Outback	0'32	0'27									0'18									
SOUTH-WEST BUREAU.	Balesore	Kondrapara	0'32	0'27									0'22									
		Jajpore	0'10	0'24																		
		Dharmasalia	0'70																			
		Salipore																				
		Chandballi	0'03	0'10	4'03								0'25									
	Midnapore	Khuddruch	0'10	0'25																		
		Norah	2'05	0'30																		
		Belaore	1'21																			
		Jalauore	0'01																			
		Baripodab																				
	Diamond Harbour	Contai	0'20	0'15																		
		Saugor Island	0'20	1'25																		
		Tumlook																				
		Midnapore																				
		Chital																				
	Diamond Harbour	Akshatasy																				
		Garbata																				
	Diamond Harbour	Diamond Harbour	0'04																			
		Canning Town																				
		Alipore Jail	0'05																			
		Barrackpore																				
		Jum-Jum	0'59																			
	Howrah	Barasat																				
		Bumserhat																				
		Howrah																				
		Mohera																				
		(Oolaberdah).																				
	Hooghly	Serampore	0'05																			
		Hooghly																				
	Bardwan	Jehansabad																				
		Calcutta	0'20																			
		Bardwan	0'20																			
Outwa																						
Howrah		0'10																				
	Bankura	Wander	0'41																			
		Bankura																				
		Bishenpore																				
		Maliara	0'05																			
		Khatra																				
	Bankura	Indas																				
		Katipore																				
		Anda																				
		Ganpajalhati																				
		Basipore																				
	Sambalpur	Sambalpur																				
		Bh. Boory	0'25	0'19																		
		Bhatpore	0'75																			
		Bhatpore	0'20																			
		Bhatpore	1'15																			
	Huddes	Murarat																				
		Ranshat																				
		Kishinshar	0'20																			
		Choodanga																				
		Meherpore																				
	Khodina	Koodhita																				
		Naikhir	0'45																			
		Baghat																				
		Koodina																				
		Pakipar	0'00																			
	Jessore	Kempal																				
		Narail																				
		Jessore																				
		Jhendab																				
		Marowah																				
	Moorshedabad	Bougong																				
		Kandi	0'30																			
		Herishampore	0'08																			
		Lalbarh																				
		Atimgunge																				
	Moorshedabad	Jumrapa	0'00																			
		Jalaba																				
		Jaxung	0'05																			
		Akimganj																				
		Patkabori																				
	Chittagong	Cox's Bazar	0'05	0'20	0'25	0'05	0'05	0'05	0'05	0'05	0'05	0'05	0'05	0'05	0'05	0'05	0'05	0'05	0'05	0'05	0'05	0'05
		Chittagong																				
		Kutubdia																				
		Satkhya																				
		Chittagong Hill Tract.																				
	Chittagong Hill Tract.	Baganmal	0'00																			
		Rama	0'00																			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524
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Table of Rainfall recorded at Sta

[illegible]



Table of Rainfall recorded at Station

[illegible]





**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS  
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS  
TAKEN IN ASSAM, FOR THE MONTH OF NOVEMBER 1890.**

THE normal features of the meteorology of Bengal during November are very simple. Northerly winds blow over the whole of Bengal, and these usually extend as a north-easterly wind current over the north and centre of the Bay. These northerly winds are dry, and usually give in Bengal almost cloudless skies; temperature also diminishes steadily during the month, the diminution being strongly marked in the night temperatures, and humidity is low. As a rule, little or no rain falls unless it is brought up by one or other of two kinds of disturbances, which almost reverse the normal weather conditions. The first class of disturbances consist of cyclonic storms which are formed in the middle or south of the Bay in front of the retreating south-west monsoon. When they form, as they do occasionally, they usually advance towards the Madras coast, and expend their main force over the south of the peninsula, but sometimes they advance towards the north of the Bay. In the first case, they generally modify the weather over the whole of the Bay; and if the disturbance is a large one, humid winds will again be forced over Bengal, when skies will cloud over and temperature and humidity rapidly increase, and rain may fall, particularly over the southern parts of the province. In the second case, if a large and influential storm which has formed in the Bay advances towards Bengal and should happen to strike the coast, the weather conditions in Bengal will naturally be entirely reversed. Over the area where the storm passes excessively heavy rain will fall, and if the storm be a large one, the whole of Bengal will feel its effects, and general rain may be brought up for a considerable period. The second class of disturbances consist of land-formed barometric depressions, which originate over Upper India and drift sometimes over Bengal, giving clouded skies, increased humidity and temperature, and sometimes light rain. These land-formed disturbances seldom occur in November; and if they do occur, they are generally of very little importance.

Except, therefore, for rainfall brought up by the occurrence of storms in the Bay, as a rule, the province is almost rainless in November. Its occurrence and distribution are therefore very capricious, and the normal rainfall of November in Bengal is extremely small. Orissa usually receives a fall of about an inch and-a-third, and East Bengal one of about an inch; but in the other districts the fall is only from about a tenth up to a third of an inch.

*Meteorology of the month.*—At the commencement of November weather conditions in the south of the Bay of Bengal were distinctly unsettled, though at no time did the disturbed conditions concentrate to form a definite storm. The disturbance was, however, sufficiently influential to affect the weather conditions over the southern half of Bengal, and cloudy weather with a decidedly moist atmosphere obtained, and occasional rain fell during the first week of November. In Orissa the fall was general, but in South-West, East and North Bengal and in Chutia Nagpur showers only were reported. Cool clear weather, on the other hand, obtained during this period over Behar and over the northern districts of Bengal. At the end of the first week, however, weather conditions began to improve with the disappearance of the unsettled weather in the Bay, and during the second week of November fine weather prevailed almost without interruption throughout the week. The general conditions during this time underwent very little change from day to day, and conditions were fairly normal, except that pressure was above the average, while temperature fell pretty steadily throughout the week. The north-east monsoon season may indeed be said to have thoroughly set in over the whole of Bengal from the end of the first week in November, and from this date up till the end of the month conditions were of the ordinary cold weather character, and the changes which have taken place from day to day have been of the usual oscillatory nature which characterizes fine settled weather. Barometric pressure has remained high, and the mean for the month is very distinctly above the normal. Temperature has generally fallen by small amounts up till the close of the month, and the mean temperature for the month has been slightly below the normal. Humidity after the first few days has been fairly low, though the mean humidity for the month has been distinctly in excess of the usual amount. The sky during this period has also been generally only lightly clouded; indeed, if anything, rather less clouded than usual, and at most stations the mean cloud proportion for the month has shown that the sky has only been clouded over to about one or two-tenths of the possible amount. During the last three weeks of November also rainfall has been entirely absent throughout the whole province, the last light showers which fell were reported from Orissa on the 10th and 11th of the month.

*Pressure.*—During the first week the average pressure was in excess of the normal by amounts which varied from 0.03 inch in Orissa, South-West Bengal, and Chutia Nagpur to about 0.07 inch at some of the more northern stations. In the second week pressure was again in excess by amounts varying from 0.02 inch over the greater part of the province to 0.05 inch in East Bengal. In the third week the excess pressure was rather more pronounced, and it varied from a twentieth of an inch in Behar and North Bengal to a tenth of an inch in the south of Orissa. In the last week of the month also the excess was perhaps even larger than in the third, and it varied usually from six to ten-hundredths of an inch. For the whole month, therefore, pressure has been in excess of the normal, the usual excess varying from about four to seven-hundredths of an inch; the excess being usually largest in

East Bengal, where it averaged 0.06 inch, though in Assam the excess was not quite so large as at the stations in East Bengal, for there it only has averaged 0.05 inch.

*Temperature*—Was very distinctly below the normal for the first three weeks of the month, though in the last week it was almost normal. For the whole month five out of the seven large meteorological divisions show mean temperatures distinctly below the normal, the defects generally varying from about half to one degree; but, on the other hand, Chutia Nagpur and North Bengal show mean temperatures of about a third to one degree above the normal. The mean temperature of the whole province for the month may be said to have been only 0.3° below the normal for the period. The general variation of the day and night temperatures from the normal during the month is, however, best seen in the following table, where the weekly variations of the average maximum, minimum, and mean temperatures from the normal are given at nine typical stations in different districts of the province. It will be seen that the variations both of the day and night temperatures have been considerable:—

STATIONS.	WEEK ENDING 7TH NOVEMBER 1890.			WEEK ENDING 14TH NOVEMBER 1890.			WEEK ENDING 21ST NOVEMBER 1890.			WEEK ENDING 28TH NOVEMBER 1890.		
	Variation of actual mean maxi- mum temperature of week from normal mean.	Variation of actual mean mini- mum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maxi- mum temperature of week from normal mean.	Variation of actual mean mini- mum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maxi- mum temperature of week from normal mean.	Variation of actual mean mini- mum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.	Variation of actual mean maxi- mum temperature of week from normal mean.	Variation of actual mean mini- mum temperature of week from normal mean.	Variation of actual mean daily temperature of week from normal mean.
Cuttack ... ..	-1.1	+1.5	+0.2	+0.4	+1.1	+0.8	-0.0	-2.2	-1.4	-1.3	-2.1	-1.7
Calcutta ... ..	-0.8	-1.4	-1.0	-1.0	-1.5	-1.0	-1.3	-3.3	-2.2	-1.1	-1.9	-1.5
Dacca ... ..	-1.5	-3.2	-2.3	-2.8	-2.3	-2.5	-0.2	-0.4	-0.2	-0.7	-2.2	-1.4
Muridwan ... ..	+0.3	+0.3	-4.1	-1.0	-0.3	-0.4	-0.2	-1.0	-0.0	-0.3	+0.4	+0.1
Fatna ... ..	-3.4	-0.2	-1.7	-2.0	-2.4	-2.3	-1.3	-3.2	-1.3	+0.0	+2.4	+1.7
Gya ... ..	-1.5	+1.3	-0.1	-1.4	-1.0	-1.5	-2.0	-4.0	-2.0	+1.1	+1.6	+1.3
Purneah ... ..	-3.1	+0.1	-1.5	-3.2	-1.2	-2.2	-1.8	+1.3	-0.4	-1.4	-0.3	-0.6
Basaribagh ... ..	-1.3	+0.2	-0.6	-1.3	-1.0	-1.0	+1.3	-0.6	-0.3	+1.5	+0.3	+0.9
Darjeeling ... ..	-3.2	-2.5	-2.0	-2.0	+1.0	+0.6	-0.0	+0.3	-0.3	+1.0	+1.0	+1.5

*Rainfall*—Was entirely confined to the first ten days of the month, and the only district receiving anything like a considerable fall was Orissa, the stations in which registered an average fall of 1.20 inches, which is slightly above the normal fall for the period. North Bengal received the next largest fall; but this district only averaged 0.22, which is again slightly in excess of the normal. In East Bengal there was an average fall of 0.17 inch only, which is about one-sixth of the usual amount, and in South-West Bengal the fall also averaged 0.17 inch, or about half the usual fall. The other districts received practically no rain at all.

The following table gives in a condensed form the rainfall information for each of the seven large meteorological districts of Bengal for the present year up to the close of November. The numbers there given, as in the case of the former months of the year, are the actual average rainfalls in each month in each district, expressed as a percentage of the normal fall for the period, and the last column also gives the total rainfall up to the end of November expressed as a percentage of the normal amount:—

METEOROLOGICAL DIVISIONS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	Actual rainfall of first eleven months of 1890 expressed as a percentage of the normal fall for the period.
Orissa ... ..	24	5	216	20	90	124	97	80	168	140	110	115
South-West Bengal ... ..	28	Nil	29	75	97	141	102	69	104	186	52	102
East Bengal ... ..	18	4	70	122	102	89	120	88	60	128	16	94
North Bengal ... ..	93	Nil	28	155	81	132	129	132	149	281	29	134
North Behar ... ..	34	2	35	40	83	140	174	134	97	101	Nil	128
South Behar ... ..	Nil	5	63	80	95	153	136	135	82	115	45	122
Chutia Nagpur ... ..	Nil	Nil	120	1	65	182	116	75	81	70	0	92

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of November 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.							
	Effect observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 10th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	87.9	85.0	86.4	85.6	86.0	-0.7	1.80	1.36	+0.44	2.4	2.2	+0.2	63.37	62.60
North-West Bengal	88.3	84.1	81.0	82.9	82.4	-0.6	0.17	0.33	-0.16	0.8	0.8	-0.0	56.83	61.33
East Bengal	87.3	83.0	81.0	83.6	82.0	-1.0	0.12	1.07	-0.95	0.4	1.6	-1.3	71.48	73.08
North Bengal	86.0	84.3	80.0	81.1	81.0	+0.8	0.32	0.17	+0.05	0.4	0.0	-0.1	86.00	68.54
North Behar	83.2	80.0	80.8	83.5	80.0	-0.4	Nil	0.08	-0.08	0.0	0.3	-0.3	64.38	47.08
South Behar	84.4	81.1	81.1	83.1	82.8	-0.4	0.40	0.20	-0.11	0.1	0.8	-0.4	54.06	48.17
Chutia Nagpur	80.3	40.5	77.4	50.1	60.7	+0.3	0.08	0.34	-0.33	0.2	1.1	-0.9	48.00	46.78
Assam	80.7	60.2	80.8	60.1	70.2	-1.1								

\* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;

The 9th December 1890.

A. PEDLER,

Meteorological Reporter to the Govt. of Bengal.

**Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of November 1890.**

	Inches.	Date.	Hour.
The mean pressure of the month ...	29.995		
The average pressure of November from 24 years' registers ...	29.970		
The highest pressure in the month ...	30.167	23rd	10
The lowest pressure in the month ...	29.865	2nd	16
The range of pressure ...	0.302		
<b>Hours.</b>			
The total number of hours of bright sunshine during the month	254.1		
The maximum possible number of hours of sunshine ...	330.8		
<b>°</b>			
The mean temperature of the month ...	71.4		
The average temperature of November from 24 years' registers	74.8		
The highest temperature in the month ...	82.7	4th and 9th.	
The lowest temperature in the month ...	57.4	16th.	
The range of temperature during the month ...	25.3		
The mean daily range of temperature ...	17.4		
The greatest range of temperature in one day ...	21.8	16th.	
<b>Per cent.</b>			
The mean humidity of the month ...	78		
The average humidity of November from 24 years' registers ...	72		
<b>Inches.</b>			
The mean vapour tension of the month ...	0.591		
The average vapour tension of November from 9 years' registers	0.618		
The mean cloud proportion of the month ...	1.78		
The average cloud proportion of November from 18 years' registers	2.64		
The total rainfall of the month ...	0.01		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	Nil		
The average fall of November from 48 years' registers ...	0.65		
The greatest fall in 24 hours ...	0.01	2nd.	
<b>Days.</b>			
The number of rainy days in the month ...	1		
The average number of rainy days in November from 24 years' registers ...	2		
<b>°</b>			
The mean maximum-equilibrium temperature of solar radiation during the month ...	137.0		
The mean difference of sun and air temperatures ...	57.0		
The greatest sun temperature ...	144.0	1st.	
The greatest excess of sun over air temperature ...	62.6	7th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth ...	55.9		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground ...	6.9		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature ...	9.3	30th.	
<b>Miles.</b>			
The mean movement of the wind per day ...	28.0		
The greatest movement of the wind in one day ...	65.0	24th.	
The greatest movement of the wind in one hour ...	10.0	24th, noon to 1 p.m.	
The number of hours with winds from each of the 8 points—			
N. 143, N.E. 66, E. 34, S.E. 19, S. 3, S.W. 8, W. 30, N.W. 62, Calm 364.			

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore .003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 1.6 lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer which is the standard of reference at the present Observatory.

G. LITTLE,

METEOROLOGICAL OFFICE, INDIA;  
Calcutta, the 8th December 1890.

*For Meteorological Reporter to the Govt. of India.*

## Meteorological Report of the Province of Bengal.

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.												
District.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.								
		Mean barometric height, 3 A.M.	Mean reduced to sea-level.	Reduction from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature.	Mean daily temperature.	Variation from actual mean of week.	
UNION.	Pooree	30.038	30.040	—	NNW & N	110	81.0	31.3.5 Dec.	61.0	30-3 Dec.	81.3	62.7	72.0	—	
	Gopalpore	30.043	30.044	+0.010	NNW	151	79.4	5th	64.3	1st Dec.	78.7	57.8	68.3	—0.4	
	Fales Point	30.037	30.030	—0.005	NNW	27	84.3	5th	65.3	30th Nov.	88.2	66.3	71.7	—1.4	
	Outback	30.033	30.038	+0.013	Calm	62	80.3	1, 2, 4, 5th	63.3	1st Dec.	79.9	67.1	68.5	+1.2	
	Balaore	30.013	30.043	+0.011	Calm	192	77.7	30th Nov.	69.0	30th Nov.	71.1	60.0	68.0	—0.6	
SOUTH-WEST BENGAL.	South-West Midnapore	Baquer Island	30.038	30.038	+0.008	NNE	192	82.3	4th Dec.	58.2	29-1st Dec.	80.7	60.0	68.4	+0.7
	Midnapore	Midnapore	30.019	30.038	—0.002	N	86	82.3	4th Dec.	58.2	29-1st Dec.	80.7	60.0	68.4	+0.7
	24-Pargannas	Calcutta	30.030	30.073	+0.043	Calm	31	77.5	29, 4	56.8	2.4th Dec.	77.3	56.7	67.1	—1.0
	Howrah	Howrah	30.035	30.080	+0.045	N	31	80.3	30th Nov.	67.4	2nd	78.3	58.0	68.1	—0.1
	Burdwan	Burdwan	30.035	30.080	+0.045	W	41	81.1	5th Dec.	65.0	20th Nov.	80.0	58.3	64.4	+0.4
SOUTH-WEST BENGAL.	Bankura	Bankura	30.035	30.080	+0.045	NNW	51	79.0	20, 30, 5th	65.3	30th	79.4	57.3	68.3	+0.3
	Barhampur	Barhampur	30.016	30.080	+0.064	Northerly	31	78.1	20 & 30th Nov.	57.2	4th Dec.	77.5	58.0	68.2	—0.3
	Nuddee	Krishnagar	30.016	30.080	+0.064	North-Westerly.	64	80.8	30th	63.1	2nd	80.0	54.0	67.5	—0.0
	Jessore	Jessore	30.035	30.074	+0.010	Calm	10	79.7	20, 30th	65.0	30th Nov.	78.1	66.7	67.9	—1.1
	Khoolna	Khoolna	30.035	30.074	+0.010	Calm	10	82.2	20th	65.0	4th Dec.	78.2	60.0	68.4	—1.7
EAST BENGAL.	Chittagong	Chittagong	30.034	30.040	+0.006	Northerly	35	82.2	20th	65.0	4th Dec.	78.2	60.0	68.4	—1.7
	Chittagong Hill Tracts	Dumagui	30.032	30.042	+0.014	Calm	30	78.8	20 & 30th Nov.	63.0	2nd Dec.	77.7	50.7	67.2	—0.3
	Backergunge	Backergunge	30.024	30.070	+0.046	Northerly	1	81.0	30 & 30th	63.0	2nd	78.0	54.8	66.9	—2.1
	Noakholly	Noakholly	30.026	30.069	+0.043	Calm	20	74.0	1, 2, 30th	55.8	30th Nov.	73.7	55.0	65.2	—2.9
	Farrakka	Farrakka	30.023	30.047	—0.024	Northerly	58	81.6	4th Dec.	50.8	2nd Dec.	78.0	57.8	65.4	—2.6
NORTH BENGAL.	Dacca	Commillah	30.036	30.057	+0.016	NNE	11	81.0	30th	63.0	30, 2, 3	79.4	54.0	68.0	—2.0
	Commillah	Commillah	30.036	30.057	+0.016	NNE	11	81.0	30th	63.0	30, 2, 3	79.4	54.0	68.0	—2.0
	Mymensingh	Mymensingh	30.001	30.052	+0.051	NNE	31	78.0	30th	64.0	30th Nov.	76.0	55.8	68.4	—1.6
	Bogra	Bogra	30.078	30.043	+0.015	NE	24	78.3	20th	63.1	1-3 Dec.	76.5	53.0	66.8	—1.3
	Pahra	Serajgunge	30.008	30.058	+0.050	N	14	77.8	30th	63.0	1st	76.8	56.1	66.0	—1.3
NORTH BENGAL.	Rajahmundry	Rajahmundry	30.030	30.059	+0.029	NNE	52	77.6	30th	63.0	2nd	76.7	57.0	67.1	+0.0
	Maldah	Maldah	30.044	30.039	—0.005	Northerly	75	70.0	4th Dec.	63.5	1st	77.7	54.5	66.2	—
	Dinapore	Dinapore	30.036	30.064	+0.016	Northerly	7	70.1	20th Nov.	63.7	1st	77.6	55.1	66.3	+0.3
	Kanpur	Kanpur	30.028	30.057	+0.024	NE	40	76.3	20th	61.0	1st	76.0	54.1	65.0	—0.3
	Julpore	Julpore	30.073	30.073	—0.001	?	7	74.0	20th	64.3	20th Nov.	75.7	58.3	67.0	+0.1
NORTH BENGAL.	Chandpur	Chandpur	30.073	30.073	—0.001	?	7	74.0	20th	64.3	20th Nov.	75.7	58.3	67.0	+0.1
	Darjeeling Hill Tracts	Darjeeling	30.032	—	—0.018	Variable	40	53.4	30th	40.1	3rd Dec.	50.2	36.7	44.0	—0.3
	Purnea	Purnea	30.030	30.070	+0.010	Calm	38	78.3	20th	63.0	30th Nov.	76.7	54.0	66.7	0
	North Bhagulpore	North Bhagulpore	30.030	30.070	+0.010	Calm	38	78.3	20th	63.0	30th Nov.	76.7	54.0	66.7	0
	Mooserpore	Mooserpore	30.075	30.064	—	W & W	100	77.8	20th	63.8	1st Dec.	78.8	55.0	66.4	—
SOUTH BENGAL.	Durbhanga	Durbhanga	30.038	30.075	+0.035	Calm	32	79.4	20th	66.0	20th Nov.	77.7	57.8	67.8	+0.3
	Chumbarun	Chumbarun	30.047	30.097	+0.050	Variable	70	74.7	20th	60.0	20th	77.2	53.6	65.4	+2.0
	Baran	Chupra	30.064	30.070	+0.006	Calm	30	78.3	4th Dec.	60.3	1 & 2 Dec.	77.3	58.6	67.0	+1.0
	Shahabad	Dohra	30.070	30.085	+0.015	SW	34	61.3	4th	63.0	30th Nov.	78.5	56.8	67.0	+0.9
	Gya	Baker	30.038	30.061	+0.021	S-Wly.	30	70.0	4th	63.0	20th	78.0	56.0	67.0	+0.3
SOUTH BENGAL.	Arrah	Arrah	30.038	30.061	+0.021	WNW	5	60.1	4th	63.0	20th	78.0	56.0	67.0	+0.3
	Gya	Gya	30.038	30.061	+0.021	S	120	60.4	4th	63.0	20 & 30	78.3	56.0	67.0	+0.3
	Patna	Bankipore	30.040	30.080	+0.040	SW	35	77.8	29, 4	65.4	20th	77.1	56.0	67.0	+1.0
	South Bhagulpore	Bhagulpore	30.050	30.080	+0.014	Calm	2	78.3	20th Nov.	63.5	30th	77.1	58.0	68.1	+1.7
	Monghyr	Monghyr	30.050	30.080	+0.014	Calm	2	78.3	20th Nov.	63.5	30th	77.1	58.0	68.1	+1.7
SOUTH BENGAL.	Santal Pargannas	Dumka	30.053	30.083	+0.006	Calm	37	78.8	30th	63.0	30th	77.7	54.8	66.0	+0.7
	Hazaribagh	Hazaribagh	30.003	30.093	+0.027	Variable	100	77.9	30th	63.8	20th	76.7	56.0	65.1	+0.3
	Chandpur	Manohar	30.076	30.082	+0.006	Calm	65	78.0	30th	60.4	3rd Dec.	78.0	58.2	64.6	+0.3
	Siakhpore	Chyabana	30.000	30.100	+0.081	N	20	81.8	5th Dec.	65.0	30th Nov.	80.0	64.3	67.7	+1.7

\* Mean of six days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the readings during the same period for the years 1871-80. The humidity of the atmosphere is expressed in percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The amount of rain is expressed in inches, and the amount of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the same period. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 5th of December 1890.

DISTRICT OBSERVATIONS.															Representative station.	District.	METEOROLOGICAL DIVISION.
No.	Average at 8 A.M.	Average cloud amount at 8 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.											
				Mean for district.	Normal mean.	Since 1st of November.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.				
						Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
69	3.3	Nil	Nil	0.39	1.89	2.52	-0.70	65.77	54.38	+10.92	0.0	0.4	Baran	Baran	Baran		
70	0.7	Nil	Nil	0.10	1.87	1.28	+0.09	63.04	51.08	+11.96	0.0	0.3	Gopalpur	Gopalpur	Gopalpur		
71	3.4	Nil	Nil	0.10	0.87	0.97	-0.10	61.20	62.71	-1.51	0.0	0.3	Fateh Point	Fateh Point	Fateh Point		
72	3.6	Nil	Nil	0.10	0.87	0.78	-0.12	60.59	61.70	-1.11	0.0	0.3	Outback	Outback	Outback		
73	0	Nil	Nil	0.10	0.84	0.78	-0.12	60.59	61.70	-1.11	0.0	0.3	Balastra	Balastra	Balastra		
74	5.9	Nil	Nil	0.10	0.84	0.78	-0.12	60.59	61.70	-1.11	0.0	0.2	Saugor Island	Saugor Island	Saugor Island		
75	1.7	Nil	Nil	0.11	Nil	0.51	-0.51	50.00	59.92	-9.92	0.0	0.2	Midnapore	Midnapore	Midnapore		
76	1.7	Nil	Nil	0.13	0.07	0.44	-0.37	65.16	51.00	+14.16	0.0	0.2	Calcutta	Calcutta	Calcutta		
77	2.3	Nil	Nil	0.00	0.42	0.40	-0.16	61.41	40.92	+20.49	0.0	0.2	Bardwan	Bardwan	Bardwan		
78	2.6	Nil	Nil	0.13	0.01	0.59	-0.58	62.02	62.00	-0.02	0.0	0.2	Bankura	Bankura	Bankura		
79	2.1	Nil	Nil	0.00	0.35	0.33	+0.12	63.03	51.05	+11.98	0.0	0.3	Ranagunge	Ranagunge	Ranagunge		
80	2.0	Nil	Nil	0.07	0.33	0.34	+0.01	60.55	49.00	+11.55	0.0	0.2	Birampur	Birampur	Birampur		
81	3.1	Nil	Nil	0.05	0.04	0.43	-0.37	65.03	48.71	+16.32	0.0	0.2	Krishnagar	Krishnagar	Krishnagar		
82	2.0	Nil	Nil	0.18	0.08	0.50	-0.42	63.51	63.74	-0.23	0.0	0.2	Jessore	Jessore	Jessore		
83	3.1	Nil	Nil	0.25	1.27	2.41	-1.04	115.05	115.61	-0.56	0.0	0.4	Chittagong	Chittagong	Chittagong		
84	0.4	Nil	Nil	0.19	0.42	2.10	-1.77	73.82	73.96	-0.14	0.0	0.3	Damagiri	Damagiri	Damagiri		
85	0.4	Nil	Nil	0.20	Nil	1.09	-1.09	65.16	70.93	-5.77	0.0	0.3	Barrisal	Barrisal	Barrisal		
86	0	Nil	Nil	0.32	Nil	1.90	-1.90	97.68	100.00	-2.32	0.0	0.4	Noakhali	Noakhali	Noakhali		
87	0.0	Nil	Nil	0.00	Nil	0.01	-0.01	45.42	51.03	-5.61	0.0	0.2	Farrakka	Farrakka	Farrakka		
88	3.0	Nil	Nil	0.13	Nil	0.59	-0.59	55.10	59.92	-4.82	0.0	0.2	Dacca	Dacca	Dacca		
89	1.4	Nil	Nil	0.20	Nil	0.62	-0.62	60.11	67.87	-7.76	0.0	0.2	Comilla	Comilla	Comilla		
90	2.7	Nil	Nil	0.00	0.17	0.30	-0.13	75.83	68.46	+7.37	0.0	0.1	Mymensingh	Mymensingh	Mymensingh		
91	0	Nil	Nil	0.03	0.41	0.42	-0.01	74.99	68.98	+6.01	0.0	0.1	Roxa	Roxa	Roxa		
92	2.0	Nil	Nil	0.03	0.07	0.33	+0.26	51.05	62.66	-11.61	0.0	0.1	Shera	Shera	Shera		
93	1.7	Nil	Nil	0.00	0.03	0.28	+0.25	75.80	62.90	+12.90	0.0	0.2	Rampore	Rampore	Rampore		
94	0.6	Nil	Nil	0.00	0.02	0.25	-0.23	63.14	63.00	+0.14	0.0	0.1	Maldah	Maldah	Maldah		
95	0.3	Nil	Nil	0.00	Nil	0.10	-0.10	61.74	63.31	-1.57	0.0	0.2	Dinapore	Dinapore	Dinapore		
96	1.1	Nil	Nil	0.02	Nil	0.11	-0.11	100.01	72.20	+27.81	0.0	0.1	Rangpur	Rangpur	Rangpur		
97	0.4	Nil	Nil	0.01	Nil	0.07	-0.07	184.51	109.00	+75.51	0.0	0.1	Jalpaiguri	Jalpaiguri	Jalpaiguri		
98	4.3	Nil	0.04	0.01	0.11	0.32	-0.21	100.09	119.80	-19.71	0.0	0.1	Darjeeling	Darjeeling	Darjeeling		
99	0.7	Nil	Nil	Nil	Nil	0.00	-0.00	60.07	65.05	-4.98	0.0	0.0	Purnea	Purnea	Purnea		
100	1.1	Nil	Nil	Nil	Nil	0.00	-0.00	52.07	42.70	+9.37	0.0	0.0	Moulvibazar	Moulvibazar	Moulvibazar		
101	0.0	Nil	Nil	Nil	Nil	0.00	-0.00	57.63	49.00	+8.63	0.0	0.0	Darbhanga	Darbhanga	Darbhanga		
102	2.4	Nil	Nil	Nil	Nil	0.01	-0.01	66.47	49.90	+16.57	0.0	0.0	Motibari	Motibari	Motibari		
103	1.0	Nil	Nil	Nil	Nil	0.19	-0.19	69.60	41.00	+28.60	0.0	0.0	Cooch	Cooch	Cooch		
104	2.0	Nil	Nil	Nil	Nil	0.20	-0.20	40.00	32.33	+7.67	0.0	0.0	Dacca	Dacca	Dacca		
105	2.4	Nil	Nil	Nil	Nil	0.24	-0.24	58.03	40.81	+17.22	0.0	0.0	Gya	Gya	Gya		
106	1.1	Nil	Nil	Nil	Nil	0.20	-0.20	48.10	40.81	+7.29	0.0	0.0	Bankura	Bankura	Bankura		
107	1.1	Nil	Nil	0.07	Nil	0.21	-0.21	58.25	42.65	+15.60	0.0	0.1	Shahdol	Shahdol	Shahdol		
108	0.7	Nil	Nil	0.00	0.38	0.35	+0.03	63.65	50.23	+13.42	0.0	0.1	Boomka	Boomka	Boomka		
109	1.3	Nil	Nil	0.03	0.01	0.38	-0.37	49.43	49.23	+0.20	0.0	0.1	Hazaribagh	Hazaribagh	Hazaribagh		
110	2.0	Nil	Nil	0.03	Nil	0.47	-0.47	47.01	47.45	-0.44	0.0	0.1	Banchi	Banchi	Banchi		
111	1.7	Nil	Nil	0.07	0.10	0.24	-0.14	41.33	40.35	+0.98	0.0	0.1	Chyabura	Chyabura	Chyabura		

Notes. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. The average cloud amount represents the part of the sky covered, the whole area being divided by 10. Under the head District observations of rainfall the normal means are given for the week ending Friday, the 5th of December 1890. The means of the district are the numerical average of the rainfall returns received in the district, i.e., from total rainfall at the subdivisions.



Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 5th of December 1890.

Meteorological Division.	District.	Station.	RAINFALL.						TOTAL		Total rain-fall since 1st of November.	Average total rain-fall from 1st of November.	Total rain-fall since 1st May 1890.	Average rainfall from 1st May to date.
			Saturday 29th November.	Sunday 30th November.	Monday 1st December.	Tuesday 2nd December.	Wednesday 3rd December.	Thursday 4th December.	Friday 5th December.	Number of rainy days.				
NORTH-EAST BRANCH.	Purboe	Purboe	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.40	09.97	50.3
		Khurda	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	1.70	06.16	50.80
		Banpur	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	3.20	01.35	40.80
		Paleo Point	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.09	2.03	08.10	02.40
		Gum	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	1.00	05.05	50.00
	Ootnack	Salpara	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.94	4.07	45.07	50.00
		Pigil	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	1.00	75.00	50.00
		Jagatsingpore	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.20	05.07	50.00
		Banki	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.05	2.10	00.00	48.06
		Ootnack	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.10	00.00	48.06
	Balasore	Kondrapara	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	1.07	03.15	48.07
		Jajpore	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.70	03.15	48.07
		Dharmasala	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	01.18	48.07
		Salpara	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	1.00	03.15	48.07
		Chandbali	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	1.00	03.00	48.07
Midnapore	Bhadrak	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	1.00	03.00	48.07	
	Borah	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.70	03.00	48.07	
	Balasore	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	1.00	03.15	48.07	
	Jalassore	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.40	06.03	48.07	
	Raripodab	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	03.00	48.07	
16-Pergunnas	Contal	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	07.75	07.75	
	Bauger Island	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	1.00	00.05	07.75	
	Tumuck	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	07.00	07.75	
	Midnapore	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	07.00	07.75	
	Bhutal	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	07.00	07.75	
Howrah	Kutrohaty	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	04.01	07.75	
	Gorhatta	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Diamond Bar	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Howrah	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Howrah	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
Hooghly	Howrah	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Howrah	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Howrah	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Howrah	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Howrah	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
Bardwan	Chula	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Bardwan	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Chula	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Bardwan	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Bardwan	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
Bankura	Bankura	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Bankura	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Bankura	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Bankura	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Bankura	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
Medinipur	Bh. Boory	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Medinipur	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Medinipur	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Medinipur	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Medinipur	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
Nuddea	Banaghat	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Nuddea	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Nuddea	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Nuddea	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Nuddea	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
Kharai	Satkhira	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Kharai	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Kharai	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Kharai	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Kharai	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
Jessore	Narail	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Jessore	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Jessore	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Jessore	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Jessore	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
Moorshedabad	Kandi	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Moorshedabad	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Moorshedabad	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Moorshedabad	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Moorshedabad	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
North Bengal	Chittagong	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Chittagong	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Chittagong	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Chittagong	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	
	Chittagong	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	04.01	07.75	



1

[illegible]

## Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 5th of December 1890—cond.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL		Total rain-fall since 1st of November.	Average total rain-fall from 1st of November.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 28th November.	Sunday, 29th November.	Monday, 1st December.	Tuesday, 2nd December.	Wednesday, 3rd December.	Thursday, 4th December.	Friday, 5th December.	Number of rainy days.	of week.				
NORTH BENGAL—continued.	Chumpran...	Mothari	...	...	...	...	...	...	...	...	...	...	0.02	72.06	44.32
		Baitish	...	...	...	...	...	...	...	...	...	...	0.01	54.69	47.32
		Bagaha	...	...	...	...	...	...	...	...	...	...	...	...	...
SOUTH BENGAL	Satur	Gopalgunge	...	...	...	...	...	...	...	...	...	...	0.14	52.97	43.46
		Bowen	...	...	...	...	...	...	...	...	...	...	0.12	40.74	43.16
		Chuprah	...	...	...	...	...	...	...	...	...	...	0.20	48.27	39.96
	Shahabad	Buxar	...	...	...	...	...	...	...	...	...	...	0.17	52.47	41.52
		Dahree	...	...	...	...	...	...	...	...	...	...	0.26	43.14	30.84
		Bhabooh	...	...	...	...	...	...	...	...	...	...	0.32	41.11	40.82
	Gya	Kamuran	...	...	...	...	...	...	...	...	...	...	0.24	44.11	39.98
		Arrah	...	...	...	...	...	...	...	...	...	...	0.17	56.00	39.48
		Mohania	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pain	Aerungabad	...	...	...	...	...	...	...	...	...	...	0.23	59.49	41.75
		Gya	...	...	...	...	...	...	...	...	...	...	0.27	50.84	41.75
		Nowadab	...	...	...	...	...	...	...	...	...	...	0.20	54.64	39.17
CENTRAL BENGAL	Jehanabad	Jehanabad	...	...	...	...	...	...	...	...	...	...	0.28	53.35	40.32
		Arwal	...	...	...	...	...	...	...	...	...	...	...	...	...
		Bandwan	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rajshahi	Rajshahi	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rajshahi	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rajshahi	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pabna	Pabna	...	...	...	...	...	...	...	...	...	...	0.16	50.02	41.75
		Chumpran	...	...	...	...	...	...	...	...	...	...	0.18	52.13	40.75
		Bihar	...	...	...	...	...	...	...	...	...	...	0.24	46.95	41.12
	Monghyr	Bickram	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hilsa	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hilsa	...	...	...	...	...	...	...	...	...	...	...	...	...
SOUTH BENGAL	Bogura	Bogura	...	...	...	...	...	...	...	...	...	...	0.32	44.49	39.75
		Monghyr	...	...	...	...	...	...	...	...	...	...	0.13	51.54	45.95
		Jamul	...	...	...	...	...	...	...	...	...	...	0.20	50.32	40.32
	Gopri	Gopri	...	...	...	...	...	...	...	...	...	...	...	...	...
		Shikarpur	...	...	...	...	...	...	...	...	...	...	...	...	...
		Shikarpur	...	...	...	...	...	...	...	...	...	...	...	...	...
	South Bhagat-pore.	Bhagat-pore	...	...	...	...	...	...	...	...	...	...	0.23	50.77	41.75
		Hanka	...	...	...	...	...	...	...	...	...	...	0.14	42.11	43.11
		Kelga	...	...	...	...	...	...	...	...	...	...	...	...	...
	South Per-gunnah.	Bongson	...	...	...	...	...	...	...	...	...	...	...	...	...
		Rajmahal	...	...	...	...	...	...	...	...	...	...	0.16	50.80	41.90
		Godda	...	...	...	...	...	...	...	...	...	...	0.13	50.75	43.75
CENTRAL BENGAL	Pargana	Pargana	...	...	...	...	...	...	...	...	...	...	0.14	74.15	44.15
		Nya Doocha	...	...	...	...	...	...	...	...	...	...	0.23	74.15	44.15
		Deoghar	...	...	...	...	...	...	...	...	...	...	0.17	49.43	40.32
	Jamtara	Jamtara	...	...	...	...	...	...	...	...	...	...	0.35	76.44	45.95
		Mohasana	...	...	...	...	...	...	...	...	...	...	...	...	...
		Nantah	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hamirbagh	Pachamba	...	...	...	...	...	...	...	...	...	...	0.24	55.23	44.15
		(Girdi)	...	...	...	...	...	...	...	...	...	...	...	...	...
		Hamirbagh	...	...	...	...	...	...	...	...	...	...	0.03	49.27	40.11
	Lohardugga	Semtaurab	...	...	...	...	...	...	...	...	...	...	0.45	55.04	45.75
		Mahndi Hills	...	...	...	...	...	...	...	...	...	...	0.45	43.02	45.75
		Jhoomra Hills	...	...	...	...	...	...	...	...	...	...	0.45	55.80	45.75
SOUTH BENGAL	Borhi	Borhi	...	...	...	...	...	...	...	...	...	...	...	...	...
		Uktra	...	...	...	...	...	...	...	...	...	...	...	...	...
		Karagaha	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rongpur	Rongpur	...	...	...	...	...	...	...	...	...	...	...	...	...
		Lohardugga	...	...	...	...	...	...	...	...	...	...	0.50	53.19	45.75
		Ranchi	...	...	...	...	...	...	...	...	...	...	0.44	48.87	45.75
	Singbhoon	Palanow	...	...	...	...	...	...	...	...	...	...	0.48	44.27	45.75
		Silli	...	...	...	...	...	...	...	...	...	...	0.33	41.35	45.75
		Balumar	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hansbhoon	Hansbhoon	...	...	...	...	...	...	...	...	...	...	...	...	...
		Gorwah	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chyaboon	...	...	...	...	...	...	...	...	...	...	0.32	33.04	40.11
SOUTH BENGAL	Chakradhar-pore.	Chakradhar-pore	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chakradhar-pore	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chakradhar-pore	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hansbhoon	Chakradhar-pore	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chakradhar-pore	...	...	...	...	...	...	...	...	...	...	...	...	...
		Chakradhar-pore	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hansbhoon	Purulia	...	...	...	...	...	...	...	...	...	...	0.28	44.22	45.75
		Gobindpore	...	...	...	...	...	...	...	...	...	...	0.21	33.04	45.75
		Kopkhal-pore	...	...	...	...	...	...	...	...	...	...	0.45	52.20	45.75
	Hansbhoon	Hansbhoon	...	...	...	...	...	...	...	...	...	...	...	...	...
		Jhalda	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dha	...	...	...	...	...	...	...	...	...	...	...	...	...

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 9th December 1890.



# SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 5TH OF DECEMBER 1890.

THE meteorological changes during the week have again been of very slight importance. On November 29th, or the first day of the week, pressure was decidedly high, and was about 0.05 inch to 0.07 inch in excess of the normal. A fairly steady northerly wind current was blowing over the whole province except at a few stations in the west of Behar, where winds were southerly. Temperature was generally from one to two degrees below the normal except again at many of the stations in Behar, where excess temperature was registered. The sky was also practically clear, and no rain had fallen since the early part of the month. On the 30th November a somewhat rapid fall of the barometer took place which brought pressure almost to the normal amount. This was accompanied by a moderately large fall of temperature in North Bengal and a much smaller fall in all other districts except Chutia Nagpur, and on this day winds were northerly at almost all stations in the province. Humidity and cloud proportion remained to a great extent unchanged. A further and rather more rapid fall of pressure again took place on December 1st, the fall at many stations equalling seven and eight-hundredths of an inch, and thus pressure became for the first time for a considerable period rather largely below the normal. Temperature also fell slightly on the 1st at all stations except those in Behar and Chutia Nagpur, and while the stations in the west of the province showed a temperature considerably in excess of the normal, at the eastern stations there was a very decided defect. On the 2nd pressure had commenced to rise by from two to four-hundredths of an inch, while temperature was generally rising by small amounts; these changes continued, but by rather variable amounts, on the 3rd and on the 4th, though on the 5th pressure and temperature began to fall rapidly, and by the end of the week pressure was from about 0.12 inch to 0.04 inch in defect of the normal in all districts except over part of Behar, where defect was larger than this. Temperature also on the 4th was decidedly in excess of the normal in all districts except South and South-East Bengal, where a defect was registered. The excess on the 5th was large at many of the Behar and Chutia Nagpur stations, and at Chupra, Buxar, Arrah, Dehree, and Ranchee the excess varied from 5° to 7°. Towards the end of the week also the northerly wind current had rapidly decreased in force, and on the 4th westerly and in some cases south-westerly winds were reported in Behar, Chutia Nagpur, and even over large parts of Central and part of East Bengal. Cloud proportion also commenced to increase rather rapidly at a considerable number of stations, though no rainfall of any kind was reported, except slight showers of no practical importance, from one or two stations in the Darjeeling Hills district. The changes therefore during the present week have been decidedly more marked than they were in the week ending November 28th, but still conditions have on the whole been very settled and weather has been fine.

**Pressure.**—The mean pressure for the week has not been very far removed from the normal, the variations being as a rule not larger than one or two-hundredths of an inch. At most of the stations in Orissa, South-West Bengal and East Bengal, pressure has been in excess, but in the other districts it has generally been in defect.

**Temperature.**—The mean temperature for the week has been nearly normal in Orissa, South-West and North Bengal, but it has been 2.2° below it in East Bengal. In Behar and Chutia Nagpur, on the other hand, temperature has been in excess of the normal by from 2° to 3°.

The distribution of temperature during the week and its variation from the normal are best seen in the table below, where the average maximum, minimum, and mean temperatures for the week at nine typical stations in different districts of the province are compared with their normal values for the same period. The variations, it will be seen, have been considerable both in the day and night temperatures, though the night temperatures of these nine stations on the whole are below the normal, while the day temperature, are considerably above it:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending the 5th of December 1890.

	Normal mean maximum temperature for the week ending 5th December 1890.	Actual mean maximum temperature for the week ending 5th December 1890.	Variation of actual mean from the normal.	Normal mean minimum temperature for the week ending 5th December 1890.	Actual mean minimum temperature for the week ending 5th December 1890.	Variation of actual mean from the normal.	Normal mean daily temperature for the week ending 5th December 1890.	Actual mean daily temperature for the week ending 5th December 1890.	Variation of actual mean from the normal.
Cuttack	85.3	89.8	+4.5	60.0	60.1	+0.1	71.7	71.7	0
Calcutta	78.2	77.3	-0.9	51.4	50.9	-0.5	64.8	64.1	-0.7
Dacca	81.6	79.6	-2.0	60.2	57.8	-2.4	70.9	68.4	-2.5
Burdwan	79.0	79.3	+0.3	54.4	55.8	+1.4	66.2	66.1	-0.1
Patna	76.0	77.1	+1.1	53.3	56.0	+2.7	64.3	67.0	+2.7
Gya	77.8	79.3	+1.5	52.6	54.0	+1.4	64.3	67.0	+2.7
Furness	78.6	76.7	-1.9	52.7	54.0	+1.3	65.7	65.7	0
Razaribagh	72.0	72.7	+0.7	52.3	54.5	+2.2	62.0	65.1	+3.1
Darjeeling	81.7	80.2	-1.5	58.3	58.7	+0.4	65.0	64.5	-0.5

*Rainfall.*—With the exception of a few drops of rain at Siliguri and Buxa in the Darjeeling Hills district, the whole province has been rainless throughout the week.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 5th of December 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.				Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of November.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average.		Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	
Orissa ... ..	84·3	55·5	80·5	60·1	70·3	-0·2	NH	0·21	-0·21	0·0	0·3	-0·3	1·20	1·46	08·27	53·79	
South-West Bengal ...	82·3	53·1	78·9	57·5	68·2	-0·4	NH	0·08	-0·08	0·0	0·1	-0·1	0·17	0·36	56·33	51·39	
East Bengal ... ..	82·2	53·0	77·6	56·5	67·2	-0·2	NH	0·17	-0·17	0·0	0·0	-0·0	0·17	1·34	71·42	73·03	
North Bengal ... ..	79·1	51·3	70·6	55·9	66·4	-0·3	NH	0·06	-0·06	0·0	0·1	-0·1	0·23	0·22	85·00	88·39	
North Bihar ... ..	79·4	50·3	77·1	56·1	66·0	+1·7	NH	NH	NH	0·0	0·0	0	NH	0·08	64·38	47·08	
South Bihar ... ..	81·3	58·0	78·2	58·8	67·0	+2·3	NH	0·03	-0·03	0·0	20·1	-0·1	0·09	0·23	54·00	43·20	
Chutia Nagpur ... ..	79·0°	50·5°	78·2°	53·4°	64·8°	+2·0°	NH	0·04	-0·04	0·0	0·1	-0·1	0·03	0·35	46·00	43·32	

\* Objections not included.

METEOROLOGICAL OFFICE, BENGAL ;  
The 9th December 1890.

A. PEDLER,  
Meteorological Reporter to the Govt. of Bengal.